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Guidance for the Reregistration of Pesticide Products Containing 2,6-Dichloro-4-Nitroaniline (DCNA) as the Active Ingredient

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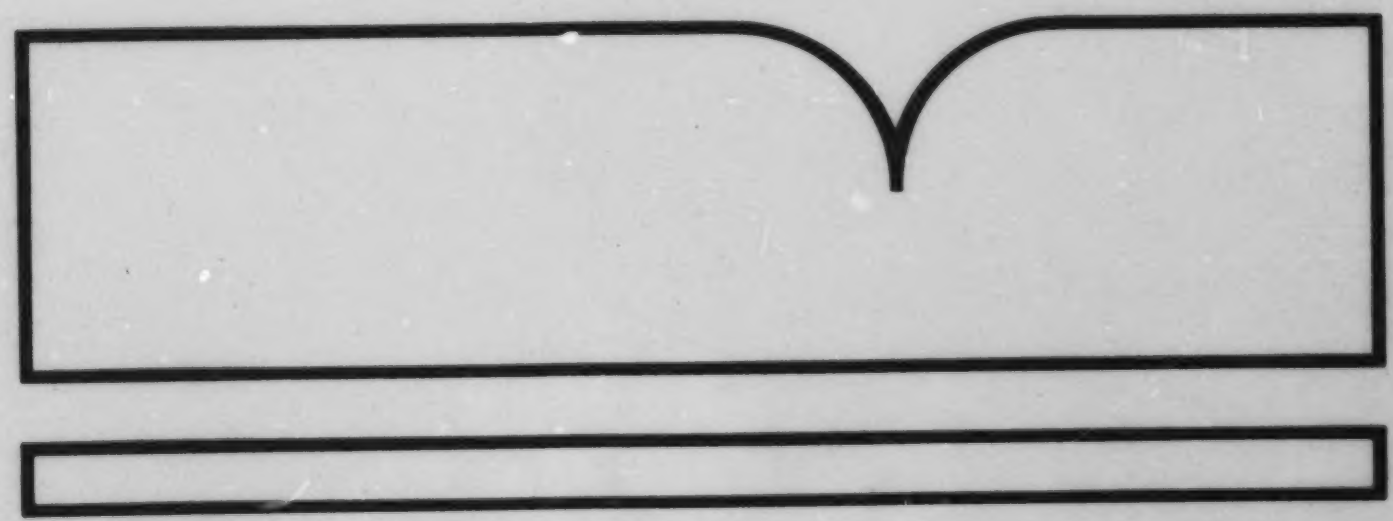

U.S. Department of Commerce
National Technical Information Service
NTIS

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GUIDANCE FOR THE REREGISTRATION OF PESTICIDE PRODUCTS CONTAINING 2,6-DICHLORO-4-NITROANILINE (DCNA) AS THE ACTIVE INGREDIENT

ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDE PROGRAMS
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15. Supplementary Notes

16. Abstract (Limit: 200 words)

This document contains information regarding reregistration of pesticide products containing the subject active ingredient. The document includes how to register under a registration standard, regulatory position and rationale, and summaries of data requirements and data gaps. Also included is a bibliography containing citations of all studies reviewed by EPA in arriving at the positions and conclusions contained in the standard.

17. Document Analysis a. Descriptors

b. Identifiers/Open-Ended Terms

c. COSATI Field/Group

18. Availability Statement	19. Security Class (This Report)	21. No. of Pages 107
	20. Security Class (This Page)	22. Price

(See ANSI-Z39.18) See Instructions on Reverse OPTIONAL FORM 272 (4-77) (Formerly NTIS-35) Department of Commerce

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INTRODUCTION

The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA Section 3(g), as amended in 1978, directs EPA to reregister all pesticides as expeditiously as possible. Each registrant of a manufacturing use product of the active ingredient who wishes to continue to sell or distribute that product must apply for reregistration.

To fulfill this Congressional mandate, we have established the Registration Standards program which will review all pesticide active ingredients first registered before January 1, 1977. These pesticides will be reviewed in use clusters which are prioritized on the basis of a ranking scheme giving preference to pesticides used on food and feed crops.

The Registration Standards program involves a thorough review of the scientific data base underlying pesticide registrations and an identification of essential but missing studies which may not have been required when the product was initially registered or studies that are now considered insufficient. Our reassessment results in the development of a regulatory position, contained in this document, on each pesticide and its uses. The regulatory position may require the registrant to modify product labels to provide additional precautionary statements, restrict the use of the pesticide to certified applicators, provide reentry intervals, modify uses or formulation types, specify certain packaging limitations, or other requirements to assure that proper use of the pesticide poses no potential adverse effects to human health or the environment.

The scientific review, which is not contained herein but is available upon request, concentrates on the technical grade of the active ingredient and identifies missing generic data. However, during the review of these data we are also looking for potential hazards that may be associated with the formulated (end-use) products that contain the active ingredient. If we find serious concerns, we will bring formulated products under the provisions of the Registration Standards program to the extent necessary to protect the public.

EPA has the authority under FIFRA §3(c)(2)(B) to require that certain registrants submit generic data that will answer our questions regarding the hazard that may result from the intended use of the pesticide under review. Further, §3(c)(2)(B) provides that these data are to be submitted by those registrants who do not qualify for the formulator's exemption [FIFRA §3(c)(2)(D)]. Normally, this means that the registrants who are responsible for filling the data gaps are the manufacturing-use product producers (basic

suppliers of the active ingredient). However, end-use producers will not qualify for the formulator's exemption if the source of their active ingredient: (1) is not registered with EPA, and/or (2) is produced by the registrant's firm, or a firm which has ownership in common with the registrant's firm. These end-use producers can qualify for the formulator's exemption if they change their source of supply to a registered source, provided the source does not share ownership in common with the registrant's firm. If the end-use product registrant decides to switch sources, a new Confidential Statement of Formula, EPA Form 8570-4, must be submitted to the appropriate Product Manager within 90 days of receipt of this Guidance Document. The chart on the following page shows what is generally required of those who do and do not qualify for the formulator's exemption in the Registration Standards program.

If you decide to request the Agency to discontinue the registration of any of your products subject to the reregistration requirements of this Guidance Document, please notify the Product Manager named in the cover letter, within 90 days from the receipt of this document, that you wish to voluntarily cancel the registration(s). If you decide to maintain your product registration(s), you must provide the information described in the following pages within the timeframes outlined. EPA will issue a notice of intent to cancel or suspend the registration of any currently registered product if you fail to comply with the requirements set forth in this Guidance Document.

This Guidance Document will be supplemented by EPA with additional information about compliance with data support requirements. In Monsanto v. Administrator, EPA was recently enjoined from implementing in any way the "mandatory data licensing" aspects of §3(c)(1)(D) of FIFRA. EPA is assessing the implications of the injunction for the reregistration process. Because this situation is currently unresolved, EPA has decided to proceed with the requirements in this Guidance Document which do not relate to compliance with the §3(c)(1)(D) provisions and to supplement the Document with additional guidance when circumstances permit. Failure to comply with the provisions of the subsequent guidance will also result in issuance by EPA of an intent to cancel the affected product registration(s).

Registrants are reminded that §6(a)(2) of FIFRA requires you at any time to submit factual information raising concerns of possible unreasonable adverse effects of a pesticide. You should notify the Agency of interim results of studies in progress if those results show possible adverse effects.

PRODUCTS SUBJECT TO THE REGISTRATION STANDARDS PROGRAM	ACTION(S) REQUIRED TO MAINTAIN REGISTRATION
I. Products That Do Not Qualify For The Formulator's Exemption A. Single Active Ingredient Products*	These products must be reregistered. To obtain reregistration, labeling, packaging and data requirements must be satisfied in accordance with the Registration Standards Guidance Document.
B. Multiple Active Ingredient Products	These products will not be reregistered at this time. However, generic data required to continue the registration of the active ingredient under review, as described in the Registration Standards Guidance Document, will be required and some labeling precautions may also be required.
II. Products That Do Qualify For The Formulator's Exemption	Only when additional restrictions or labeling are needed to protect man or the environment will these products be subject to the Registration Standard requirements. Affected products will be dealt with in a variety of ways, including but not limited to the Label Improvement Program and special intent to cancel notices.

* End-use products of registrants who also produce a manufacturing-use product will not be required to be reregistered provided that registrant fulfills the requirements specified in the Guidance Document for manufacturing-use product(s). Such end-use products will be subject to the labeling changes required for products in "II" above. If there are no manufacturing-use products registered by any company end-use products will be required to be reregistered.

NOTE: If all registrants in "I" above fail to meet the requirements in I-A and B above, then the registrants in "II" lose their right to qualify for the formulator's exemption and become subject to the requirements in I-A and B.

I. REGULATORY POSITION

A. Introduction

This Registration Standard presents the regulatory position of the Environmental Protection Agency (the Agency) on registration of manufacturing-use products (MPs) containing the fungicide 2,6-dichloro-4-nitroaniline (DCNA). The Agency's position is based on a consideration of available data for all currently registered uses and registered MPs with DCNA as the sole active ingredient.

The Standard considers labeling requirements, tolerances, Special Local Need registrations authorized by FIFRA Section 24(c), as well as Federal Registrations granted or pending under FIFRA Section 3. Finally, the Agency sets forth the data requirements that must be met to register and reregister products covered by this document.

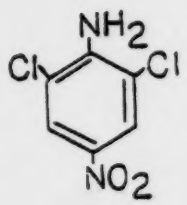
This Standard addresses registration requirements for current or substantially similar future MPs and their intermediaries. DCNA MPs that differ appreciably from these described here may require amendments to the Standard. Additionally, use patterns which differ from those described here may also require amendments to the Standard.

B. Description of the Chemical

The approved common name for 2,6-dichloro-4-nitroaniline is dicloran by the British Standards Institution (BSI).

More commonly used names are DCNA and botran. Other names include: ditranil, allisan, and resisan. The Chemical Abstracts Service (CAS) Registry Number is 99-30-9. The Office of Pesticides Programs (OPP) Internal Control Number (EPA Shaughnessy Number) is 031301 and the Caswell Number is 311.

The structural formula is:



DCNA is a yellow, crystalline powder. The empirical formula is $C_6H_4O_2N_2Cl_2$. The molecular weight is 207.0. The solubility of DCNA in ethanol is 0.2% at 20°C and its melting point is 192-194°C.

C. USE PROFILE

There are currently two (2) registered MPs consisting of the technical grade of DCNA (95% and 90%) and twentyone (21) registered end-use products containing DCNA as the sole active ingredient. There are also twenty-two (22) products containing DCNA in combination with other pesticides. In addition, there are twenty-one (21) FIFRA Section 24(c) "Special Local Need" registrations and thirty-five (35) intrastate registrations.

Upjohn Company is the only registrant of technical DCNA. DCNA

has been registered by U.S.E.P.A. and is a protectant fungicide to control a variety of pre-harvest and post-harvest diseases on a number of fruit and vegetable crops. It is also registered for use on cotton, a number of ornamentals, a seed-piece dip for sweet potatoes, a peanut seed treatment, and in greenhouses on cucumbers, lettuce, rhubarb, and tomatoes. Current major use sites include celery, peaches, grapes, and lettuce (Approximately 80% of the total active ingredient is used on lettuce). DCNA is a non-systemic, protectant fungicide that is particularly effective against fungi in the genera Botrytis, Rhizopus, Sclerotinia, Sclerotium, and Monilinia.

DCNA may be formulated with other pesticides such as captan, benomyl, and parathion. It is not compatible with some oil-based pesticides. The formulated products are marketed as 4, 5, 6, 8, 10, 12, 15, 20, 30, 35, or 50% dusts, a 48.8 or 75% wettable powder, a 9 or 30% flowable concentrate, as a 0.5% or 3% ready-to-use liquid, a 3% formulation in fruit wax and as 0.2% impregnated fruit wrap.

DCNA may be applied in the field using aircraft or ground equipment. It can be applied as a post-harvest treatment to some fruits and vegetables as a dip, spray, or dust, and to ornamental crops prior to storage or shipping.

D. Regulatory Position

Based on a review and evaluation of all available data and other

relevant information on DCNA, the Agency has made the following determinations:

1. MPs containing DCNA as the sole active ingredient may be registered for sale, distribution, and reformulation into end-use products, and for use, subject to the terms and conditions specified in this Standard.

2. Registrants must provide or agree to develop additional data, as specified in Table A and Table B of this Standard, in order to maintain existing registrations or to obtain new product registrations.

3. Sufficient data are available to show that technical DCNA has a low acute oral toxicity (toxicity category IV), low acute dermal toxicity (toxicity category IV). It does not induce skin or eye irritation to mammals. It falls in toxicity category III for dermal irritation and inhalation. DCNA is a skin sensitizer.

4. Insufficient data are available to evaluate the subchronic dermal or the subchronic inhalation hazard of DCNA. The intended use of the product is expected to result in subchronic dermal and respiratory contact to the user or applicator.

5. Since DCNA is an aniline compound, it must be tested for photosensitization reactions.

6. Due to preliminary evidence, the Agency suspects that DCNA induces a systemic effect as ocular toxicity or opacity of the

cornea. Oculotoxicity and cataractogenicity tests are required.

7. Available data are insufficient to fully assess the environmental fate and the exposure to humans and non-target organisms from the currently registered uses of DCNA.

8. DCNA is structurally similar to a known carcinogen. However, a study on rats fed DCNA at dose levels of 20, 100, and 3000 ppm, showed no oncogenic effects. A second oncogenic study is required to corroborate the findings of the rat study.

9. Tolerance regulations are presently expressed in terms of the parent compound. DCNA metabolites in plants and animals have not been adequately identified or quantified. Existing tolerances may need to be reassessed to include any possible major metabolites.

10. The presence or absence of dioxins must be ascertained. Depending on the pH and the amount of nitrophenol (contaminant) in the manufacturing process, formation of dioxins are possible. Therefore manufacturing and product chemistry data are required.

11. DCNA is considered a general use pesticide.

12. Based on an unacceptable study (glucose study), DCNA is metabolized rapidly with a half-life of 2 days in glucose treated aerobic soil. This study does not meet the aerobic soil metabolism requirements.

E. Regulatory Rationale

The Agency has determined that it will continue to allow the registration of products containing DCNA, after consideration of the following:

1. It is not the Agency's policy to cancel or withhold registration merely because data are missing or inadequate (see FIFRA Sections 3(c)(2)(B) and 3(c)(7)). Rather, publication of this Standard provides a mechanism for identifying; 1) data needs, 2) registration requirements under the Standard; and 3) allows for the upgrading of labels during the period in which the required data are being developed. These data will be reviewed and evaluated when they are received, and the Agency will determine, at that time, if the new data will affect the registration(s) of DCNA.

2. Based on the limited data available, there is no indication that there are any chronic, oncogenic, teratogenic, or mutagenic properties of DCNA.

3. The Agency has no information, to date, that indicates continued use will result in any unreasonable adverse effects to man or his environment during the time data are being developed.

4. Currently, no federal or state reentry intervals have been established. Exposure during reentry operations should be minimal when DCNA is soil incorporated. The main route of exposure is dermal from the handling of DCNA

treated crops. Reentry intervals will be considered after evaluation of the required toxicological data.

5. No human toxicological hazards of concern to this Agency, have been identified in studies reviewed for this Standard. There are questions concerning oculotoxicity and photosensitization that must be addressed. When the required studies are submitted, the Agency will be able to assess these potential problem areas.

6. The acceptable daily intake (ADI) for DCNA was set using a two year rat feeding study with a no observed effect level (NOEL) of 100 ppm (5 mg/kg). A hundred-fold safety factor was used and the ADI calculated was 0.05 mg/kg/day with a maximum permissible intake (MPI) of 3.0 mg/day (60 kg person). The latest (current) theoretical maximum residue contribution (TMRC) for DCNA based on established tolerances is 1.7622 mg/day for a 1.5 kg diet; the percent ADI utilized is 58.74.

F. Criteria for Registration under This Standard

To be covered by this Standard, products must contain DCNA as the sole active ingredient, bear required labeling, and conform to the product composition, acute toxicity limits, and use-pattern requirements listed in Section F of this document.

The applicant for registration or reregistration of products subject to this Standard must comply with all terms and conditions described herein. These include making a commitment to fill data gaps on a schedule specified by the Agency. Applicants for

registration under this Standard must follow the instructions contained in this guidance package and complete and submit the appropriate forms within the time specified.

G. Acceptable Ranges and Limits

1. Product Composition Standard

To be covered under this Standard, MPs must contain DCNA as the sole active ingredient. Each MP formulation proposed for registration must be fully described and include an appropriate certification of limits for all contaminants and impurities, and carry-over starting materials and/or intermediates above the level of 0.1% in the technical products.

2. Acute Toxicity Limits

The Agency will consider registration of technical grade products and MPs containing DCNA for any acute toxicity category, provided that the labeling of those products bears appropriate precautionary statements.

3. Use Patterns

To be registered under this Standard manufacturing-use products containing DCNA may be labeled for formulation only into end-use products for:

°Terrestrial, food use on: apricots, blackberries, boysenberries, carrots, celery, cherries (sweet), cotton seed, garlic, grapes, kiwi, lettuce, nectarines, onions, peaches, peanut seed,

plums, prunes, potatoes, raspberries, snap beans, and sweet potatoes.

°Terrestrial, non-food use on: ornamentals

°Greenhouse, food use on: lettuce, cucumber, rhubarb, and tomatoes.

°Greenhouse, non-food use on: ornamentals

H. REQUIRED LABELING

All MPs containing DCNA must bear appropriate labeling as specified in 40 CFR 162.10. Other portions of the guidance package contain specified information regarding label requirements.

1. Ingredient Statements

The ingredient statement for MPs must list the active ingredient as:

2,6 dichloro-4-nitroaniline....._____%

2. Use Pattern Statements

All MPs must state that they are intended only for formulation into end-use products for the use patterns listed above. They must specify specific sites listed in Use Patterns in Section G.3 of the Standard. A limiting factor will be the data that supports these use patterns. No use may be included on the label, or labeling, where the registrant fails to agree

to comply with the data requirements in either TABLE A for that use pattern, or TABLE B.

3. Precautionary Statements

Labels for all MPs containing DCNA must bear statements reflecting the acute human toxicity of the compound. DCNA is tentatively placed in Toxicity Category IV for dermal toxicity effects, and Category IV for acute oral and acute inhalation toxicity effects. The required precautionary statements associated with all Toxicity Categories are specified in 40 CFR §162.10.

a. Required Statements

Environmental Hazards: Do not discharege into lakes, streams ponds or public waters unless in accordance with NPDES permit. For guidance contact your regional Office of EPA.

I. Tolerance Reassessment Summary

The tolerances for DCNA residues, as cited in 40 CFR 180.200, in or on the following commodities are adequate: carrots, celery, cucumbers, endive, garlic, lettuce, rhubarb, snap beans, and tomatoes (greenhouse grown only). In addition, we conclude that finite residues of DCNA will be incurred in milk, eggs, and the fat, meat, and meat by-products of cattle, goats, hogs, horses, poultry, and sheep. Tolerances for finite residues of DCNA and its metabolites in milk, eggs, and the fat, meat, and meat by-products of cattle, goats,

hogs, horses, poultry, and sheep are presently under Agency review. The adequacy of the tolerances for DCNA residues in or on the following crops cannot be assessed at this time due to the presence of data gaps: apricots, blackberries, boysenberries, cherries (sweet), cottonseed (data needed for processed products only), grapes, kiwi fruit (only method recovery data required), nectarines, onions, peaches, plums, potatoes, raspberries, and sweet potatoes.

The ADI for DCNA is 0.05 mg/kg/day and the TMRC is 1.7622 mg/day. The MPI is 3 mg/day based on a 60 kg body weight. Currently, the human diet potentially accounts for 58.74% of the ADI. Since the TMRC is based on the established tolerances published in 40 CFR 180.200 and because the adequacy of some of these tolerances presently cannot be assessed, a future change in the TMRC is anticipated.

2,6-DICHLORO-4-NITROANILINE

	Site and Pest	Dosages and Formulation(s)	Tolerance, Use, Limitations
	AGRICULTURAL CROPS		
/05001AA	Apricot (preharvest)		20 ppm preharvest 1 day preharvest interval through 5.0 pounds per acre as a spray or 3.0 pounds per acre as a dust.
FBADMCB	Brown rot blossom and twig blight (Monilinia)	3.0 lb/A (4-15% D)	Delayed dormant and foliar application. Apply at red bud, early bloom, and bloom.
FIALMCB FIBFRAQ	Brown rot of fruit (Monilinia) Rhizopus fruit rot	2.5-3.0 lb/A (4-15% D) or 1.0 lb/ 100 gal (75% WP/D)	Foliar application. Apply at 18 days, 10 days and 1 day prior to harvest. May be formulated with captan.
/05001EA	Apricot (postharvest)		10 ppm postharvest Do not exceed the recommendations stated for each use pattern below.
FIALMCB FIBFRAQ	Brown rot of fruit (Monilinia) Rhizopus fruit rot	0.805 lb/110 gal water (48.8% WP)	Postharvest treatment to nonstored apricots. Apply as a dip or spray over a suitable brush bed. Apply 1 gallon of dilute suspension to coat 2,000 to 2,500 pounds of fruit. Do not dip more than 2 minutes. Formulated with thiophanate-methyl.
		3.22 lb/110 gal dilute wax (48.8% WP)	Postharvest treatment to nonstored apricots. Apply in a flow through spray system. Use mechanical agitation of wax mixture. Apply 1 gallon of dilute wax mixture to coat 2,000 to 2,500 pounds of fruit. Formulated with thiophanate-methyl.
		0.75 lb/100 gal water (75% WP/D)	Postharvest treatment to nonstored apricots. Tank mix with benomyl. Add fruit wax. Apply the mixture during packing line operations at the rate of 35 to 45 gallons per hour using flat-fan or flood jet nozzles. Use mechanical agitation of wax mixture. Collect spray run-off and discard. Do not treat fruit packed in containers which do not allow adequate drainage.

2,6-DICHLORO-4-NITROANILINE

	Site and Pest	Dosages and Formulation(s)	Tolerance, Use, Limitations
/15003AA	Beans (succulent) (snap)		20 ppm 2 day preharvest interval through 3.0 pounds per acre for pole varieties, or 2.4 pounds per acre for bush varieties.
FHANSAQ	White mold (Sclerotinia)	2.24-2.4 lb/A (bush varieties) or 3.0 lb/A (pole varieties) (4-15% D) (75% WP/D)	Foliar application. Apply wettable powder in 100 gallons per acre for pole varieties, and in 75 gallons per acre for bush varieties. Apply when disease is anticipated. Repeat at 7 day intervals as needed. May be formulated with sulfur; or copper oxychloride sulfate and sulfur.
/01002AA /01003AA /01018AA	Blackberry Boysenberry Red Raspberry		15 ppm on each crop 1 day preharvest interval through 2.5 pounds per acre as a spray or 3.0 pounds per acre as a dust. Do not make more than 4 applications per season.
FIBFBAW	Botrytis fruit rot	3.0 lb/A (4-15% D) or 1.0 lb/ 100 gal [250 gal/A] (75% WP/D)	Use limited to Pacific Northwest. Delayed dormant and foliar application. Apply just prior to bloom. Repeat at 7 day intervals for dust, or at 10 day intervals for wettable powder. May be formulated with sulfur; or copper oxychloride sulfate and sulfur.
	Boysenberry	See Blackberry cluster.	
/14003EA	Carrot		10 ppm postharvest Postharvest treatment (10 second dip) through 0.75 pound per 100 gallons.
FICZSAQ	Postharvest decay (Sclerotinia)	0.75 lb/ 100 gal (75% WP/D)	Postharvest treatment to nonstored carrots. Dip carrots for 10 seconds in a well-agitated suspension. Add 0.38 pound per 100 gallons of dip suspension after 500 bushels are treated. Drain and flush tank after each 1,000 bushels treated and refill with fresh dip suspension.

2,6-DICHLORO-4-NITROANILINE

	Site and Pest	Dosages and Formulation(s)	Tolerance, Use, Limitations
/13002AA	Celery .		15 ppm 7 day preharvest interval through 1.5 pounds per acre. 4 week preharvest interval for a single application through 4.0 pounds per acre.
FIBTSAQ	Pink rot (Sclerotinia)	1.5-4.0 lb/ 100 gal/A (75% WP/D)	Foliar and soil application. Use a sprayer with drop nozzle boom to direct spray to the base of plant and adjacent soil. Apply 1.5 pounds per acre when disease is anticipated or approximately 10 weeks prior to harvest. Repeat at 7 day intervals in summer or at 14 day intervals in fall and winter. If early disease is not likely, apply 4.0 pounds per acre in a single application 4 to 8 weeks before harvest.
/05002AA	Cherry (sweet) (preharvest)		20 ppm preharvest 1 day preharvest interval through 10.0 pounds per acre as a spray or 3.0 pounds per acre as a dust.
FBADMCB FIALMCB FIBFRAQ	Brown rot blossom and twig blight (Monilinia) Brown rot of fruit (Monilinia) Rhizopus fruit rot	2.5-3.0 lb/A (4-15% D) or 0.75-1.0 lb/ 100 gal (75% WP/D)	Delayed dormant and foliar application. Wettable powder may be tank mixed with captan. Apply at popcorn, bloom, full bloom, and petal fall for blossom and twig blight. For fruit rots, apply 10 days and 1 day before harvest. May be formulated with sulfur; captan; or copper oxychloride sulfate and sulfur.
/05002EA	Cherry (sweet) (postharvest)		20 ppm preharvest Do not exceed the recommendations stated for each use pattern below.
FIALMCB FIBFRAQ	Brown rot of fruit (Monilinia) Rhizopus fruit rot	1.61 lb/110 gal water (48.8% WP)	Postharvest treatment to nonstored sweet cherries. Apply as a dip or spray over a suitable brush bed. Apply 1 gallon of dilute suspension to coat 2,000 to 2,500 pounds of fruit. Do not dip more than 2 minutes. Formulated with thiophanate-methyl.

2,6-DICHLORO-4-NITROANILINE

	Site and Pest	Dosages and Formulation(s)	Tolerance, Use, Limitations
	Cherry (sweet) (postharvest) (continued)		
		1.0 lb/100 gal water (75% WP/D) or 1 gal 9% FlC/ 75 gal water or 1,200 ppm a.i. (9% FlC)	Postharvest treatment to nonstored sweet cherries. Apply as a spray while sorting. Do not recirculate used spray.
/28007AA	Cotton		0.1 ppm cottonseed Do not apply later than 14 days after first bolls open through 2.0 pounds per acre. Do not feed treated gin trash to livestock.
FIAKRAQ	Rhizopus boll rot	2.0 lb/A (6% D) or 1.5-1.75 lb/A (75% WP/D)	Foliar application. Apply wettable powder in sufficient water for thorough coverage. Apply prior to or as first bolls begin to open. Repeat 14 days later.
/10010CA	Cucumber (greenhouse)		5 ppm No preharvest interval through 1.0 pound per 100 gallons water.
FICHSAQ	Sclerotinia stem rot	1.0 lb/ 100 gal (75% WP/D)	Foliar application to greenhouse grown plants. Apply to diseased areas of plants. Additional applications may be required after 14 days.

2,6-DICHLORO-4-NITROANILINE

	Site and Pest	Dosages and Formulation(s)	Tolerance, Use, Limitations
/14007AA /14011AA	Garlic Onion		5 ppm At-planting soil application through 30.0 pounds per acre (or 43,560 linear feet of furrow) as a spray, or 24.0 pounds per acre (or 43,560 linear feet of furrow) as a dust. Do not plant spinach as a follow-up crop on treated soil. When lettuce is to be planted as a follow-up crop, plow soil to 8 inches and disc the treated area prior to seeding.
FICRSAS	White rot (Sclerotium)	14.8-24.0 lb/A (4-15% D) (50% D) or 0.75-1.2 oz/ 50 ft of row (6% D) or 24.0-30.0 lb/ 100 gal/A (75% WP/D) or in North Central States 4.5-8.0 lb/A (4-15% D) or 4.5-7.5 lb/ 100 gal/A (75% WP/D)	Soil application. For direct seeding, broadcast dust or spray and mix into top 1.5 inches of soil 1 to 2 weeks before onions are seeded. For planting sets or buds, broadcast dust or spray and mix into 1.5 inches of soil, or apply specified rates per 43,560 linear feet of furrow to soil around sets or buds. Rate per acre will vary in local areas. For wettable powder, use low pressure (30 to 40 pounds per square inch) spray equipment and 50-mesh or coarser screens. Center the front nozzle on the furrow so that spray strikes the soil around the sets or buds and rear nozzle sprays the covering soil as it fills the furrow. May be formulated with sulfur.

2,6-DICHLORO-4-NITROANILINE

	Site and Pest	Dosages and Formulation(s)	Tolerance, Use, Limitations
/01014AA	Grapes		10 ppm 1 day preharvest interval through 2.0 pounds per acre. Apply dusts using ground equipment.
FIARBAW FICJQBB	Bunch rot (Botrytis) Storage rot	1.8 lb/A (4-15% D) or 0.09 oz/ 50 ft of row (6% D) or 1.0 lb/ 100 gal [200 gal/A] (75% WP/D)	Foliar application. Apply wettable powder soon after shatter. When tank mixing wettable powder with gibberellins, use with last gibberellins application only. Follow with dust application after cluster tightening. Repeat at 2 week intervals. Or, if dust is used alone, apply while clusters are loose and repeat at 2 week intervals. May be formulated with sulfur; copper oxychloride sulfate and sulfur; copper as cuprous and cupric oxide and sulfur; naled and sulfur; sulfur and captan.
/06018EA	Kiwi Fruit		20 ppm postharvest Postharvest treatment through 1 gallon 2 percent emulsifiable concentrate per 9 gallons soft water.
FIBFAAX FIBFBAW	Alternaria fruit rot Botrytis fruit rot	1 gal 2% EC/ 9 gal soft water (2% EC)	Postharvest treatment to nonstored kiwi fruit. Apply by spraying over a suitable brush bed. Apply 1 gallon of wax mixture to 5,000 pounds of freshly cleaned fruit. Once opened, use entire contents of container with formulation (5 gallons) within 120 days. Formulated with orthophenylphenol.
/13028AA	Lettuce, Head		10 ppm 14 day preharvest interval through 2.0 pounds per acre. Single application immediately after thinning through 4.0 pounds per acre.
FGATBAW FIAZSAQ	Botrytis wilt of lettuce Sclerotinia drop	1.8-2.0 lb/A (4-15% D)	Foliar application. Apply at thinning. Repeat in 7 to 10 days. May be formulated with sulfur; copper oxychloride sulfate and sulfur; or copper as cuprous and cupric oxide and sulfur.

2,6-DICHLORO-4-NITROANILINE

	Site and Pest	Dosages and Formulation(s)	Tolerance, Use, Limitations
	Lettuce, Head (continued)		
		2.0-4.0 lb/ 100 gal/A (75% WP/D)	Foliar and soil application. Apply low rate at thinning. Repeat in 7 days. Or, apply high rate, once, immediately after thinning. Use a drop nozzle boom to direct spray to lower portion of plants and surrounding soil. Some temporary leaf bronzing may be noted soon after wettable powder application.
/13031CA	Lettuce, Leaf (greenhouse)		10 ppm 14 day preharvest interval through 2.0 pounds per acre. Do not apply to wilted plants or seedlings.
FBAABAW	Botrytis blight and rot	1.8 lb/A (4-15% D) or 2.0 lb/ 100 gal/A (75% WP/D)	Foliar application to greenhouse grown plants. Apply 7 days after transplanting. Repeat when plants are half mature. Some temporary leaf bronzing may be noted soon after wettable powder application. May be formulated with sulfur; copper oxychloride sulfate and sulfur; or copper as cuprous and cupric oxide and sulfur.
/05003AA /05004AA	Nectarine (preharvest) Peach (preharvest)		20 ppm preharvest 1 day preharvest interval through 5.0 pounds per acre as a spray or 3.6 pounds per acre as a dust.
FBADMCB	Brown rot blossom and twig blight (Monilinia)	3.6 lb/A (4-15% D) or	Delayed dormant and foliar application. Wettable powder may be tank mixed with captan. Apply at pink bud and full bloom for blossom and twig blight. For fruit rots, apply at 18 days, 10 days and 1 day prior to harvest. May be formulated with sulfur; captan; copper oxychloride sulfate and sulfur; copper as cuprous and cupric oxide and sulfur; or sulfur and captan.
FIALMCB	Brown rot of fruit (Monilinia)	2.5-3.25 lb/A (5-6% D) or	
FIBFRAQ	Rhizopus fruit rot	0.75-1.0 lb/ 100 gal (75% WP/D)	
			Also refer to Peach (preharvest) for additional use information.

2,6-DICHLORO-4-NITROANILINE

	Site and Pest	Dosages and Formulation(s)	Tolerance, Use, Limitations
/05003EA	Nectarine (postharvest)		20 ppm postharvest Do not exceed the recommendations stated for each use pattern below.
FIALMCB FIBFRAQ	Brown rot of fruit (Monilinia) Rhizopus fruit rot	1.61 lb/110 gal water (48.8% WP)	Postharvest treatment to nonstored nectarines. Apply as a dip or spray over a suitable brush bed. Apply 1 gallon of dilute suspension to coat 2,000 to 2,500 pounds of fruit. Do not dip more than 2 minutes. Formulated with thiophanate-methyl.
		4.83 lb/110 gal dilute wax (48.8% WP)	Postharvest treatment to nonstored nectarines. Apply as a spray on roller beds. Use mechanical agitation of wax mixture. Apply 1 gallon of dilute wax mixture to coat 2,500 pounds of fruit. Formulated with thiophanate-methyl.
		2.0 lb/100 gal water (75% WP/D)	Postharvest treatment to nonstored nectarines. Apply only with fruit wax. Use mechanical agitation of wax mixture. Apply the mixture during packing line operations at the rate of 30 to 35 gallons per hour at 18 to 30 pounds per square inch. Use flat-fan or flood jet nozzles. Collect and discard spray run-off.
		1 gal 3% RTU/ 12,500 lb fruit (3% RTU)	Postharvest treatment to nonstored nectarines. Apply using a spray-brush applicator to washed and partially dried fruit.
FIBFRAQ	Rhizopus fruit rot	1 gal 9% F1C/ 2 gal ready-to-use wax emulsion or 3% a.i. mixture (9% F1C)	Postharvest treatment to nonstored nectarines. Apply 1 gallon of mixture using a spray-brush applicator to 12,500 pounds of washed and partially dried fruit.
	Onion	See Garlic cluster.	

2,6-DICHLORO-4-NITROANILINE

	Site and Pest	Dosages and Formulation(s)	Tolerance, Use, Limitations
/05004AA	Peach (preharvest)		
FIALMCB	Brown rot of fruit (Monilinia)	1.5-2.4 lb/A or	Foliar application. Apply 18 days, 10 days, and 1 day prior to harvest.
FIBFRAQ	Rhizopus fruit rot	0.24-0.36 oz/ tree (6% D)	May be formulated with sulfur; or captan.
		Refer to Nectarine (preharvest) cluster for additional information.	
/05004EA	Peach (postharvest)		20 ppm postharvest Do not exceed the recommendations stated for each use pattern below.
FIBFBAW FIBFRAQ	Botrytis fruit rot Rhizopus fruit rot	0.75 lb/ 100 gal water (75% WP/D)	Postharvest treatment to nonstored peaches. Immediately after picking, dip or spray fruit with suspension. Do not recirculate used spray suspension. Or, apply in the processing line operations during or after the defuzzing process. Apply by brushes, spray, or in the hydrocooler. Brushes: Apply to the brush with traversing feeder nozzle capable of metering approximately 10 gallons of suspension per hour with the valve completely open. Agitate suspension. Unused suspension should be caught and discarded. Spray: Direct a mist spray down upon the rotating peaches. Apply approximately 45 gallons of suspension per hour at 20 to 25 pounds per square inch. TJ80 nozzles are recommended. Hydrocooler: As volume decreases, make up to original volume by adding 0.75 pound per 100 gallons of water. Drain and flush daily. Do not treat peaches packed in containers which do not allow adequate drainage.

	Site and Pest	Dosages and Formulation(s)	Tolerance, Use, Limitations
	Peach (postharvest) (continued)		
		2.0 lb/ 100 gal water (75% WP/D)	Postharvest treatment to nonstored peaches. For use on freezing and canning peaches only. Do not use for fresh fruit market. Apply as a dip immediately after picking. Agitate suspension. As volume decreases, make up to original volume by adding 2.0 pounds per 100 gallons of water. Drain and flush system daily.
FIALMCB FIBFRAQ	Brown rot of fruit (Monilinia) Rhizopus fruit rot	0.805 lb/110 gal water (48.8% WP)	Postharvest treatment to nonstored peaches. Apply as a dip or spray over a suitable brush bed. Apply 1 gallon of dilute suspension to coat 2,000 to 2,500 pounds of fruit. Do not dip more than 2 minutes. Formulated with thiophanate-methyl.
		3.22 lb/110 gal dilute wax (48.8% WP)	Postharvest treatment to nonstored peaches. Apply in a flow through spray system. Apply 1 gallon of dilute wax mixture to coat 2,000 to 2,500 pounds of fruit. Formulated with thiophanate-methyl.
		2.0 lb/100 gal water (75% WP/D)	Postharvest treatment to nonstored peaches. For use on freezing and canning peaches only. Do not use for fresh fruit market. Apply as a dip immediately after picking. Agitate suspension. As volume decreases, make up to original volume by adding 2.0 pounds per 100 gallons of water. Drain and flush system daily.
		1 gal 3% RTU/ 12,500 lb fruit (3% RTU)	Postharvest treatment to nonstored peaches. Apply using a spray-brush applicator to washed and partially dried fruit.
		2 gal 9% F1C/ 75 gal water or 2,400 ppm a.i. (9% F1C)	Postharvest treatment to nonstored peaches. For use on freezing and canning peaches only. Do not use for fresh fruit market. Apply by dip or drench. Agitate mixture.

2,6-DICHLORO-4-NITROANILINE

	Site and Pest	Dosages and Formulation(s)	Tolerance, Use, Limitations
	Peach (postharvest) (continued)		
FICZQBB	Postharvest rot decay	1 gal 0.5% RTU/10,000 lb fruit (0.5% RTU)	Postharvest treatment to nonstored peaches. Apply to fresh peaches using manufacturer's applicator.
FIBFRAQ	Rhizopus fruit rot	1 gal 9% F1C/ 2 gal ready-to-use wax emulsion or 3% a.i. mixture (9% F1C)	Postharvest treatment to nonstored peaches. Apply 1 gallon of wax mixture using a spray-brush applicator to 12,500 pounds of washed and partially dried fruit.
		1 gal 9% F1C/ 100 gal water or 900 ppm a.i. (9% F1C)	Postharvest treatment to nonstored peaches. For fresh fruit market. Apply as a spray or dip.
/28015AA	**Peanuts**		N.F. Do not use treated seed for food, feed, or oil purposes.
FKAAQBB	Damping-off	0.6 oz/100 lb seed (20% D) or 1.2-1.8 oz/ 100 lb seed (30% D) or 1.75 oz/100 lb seed (35% D)	Seed treatment. Apply with standard commercial dust seed treater to uniformly cover the seed. Formulated with captan; or captafol.
FKAAACG	Damping-off (Aspergillus)		
FKAARAQ	Damping-off (Rhizopus)		
FKABQBB	Seed rot		
FKABACG	Seed rot (Aspergillus)		
FKABRAQ	Seed rot (Rhizopus)		
		1.06 oz/100 lb seed (2.82 lb/gal or 30% F1C)	Seed treatment. Tank mix with thiram. Add a peanut seed binder. Apply as a slurry through an SS-AMP treater designed to treat peanut seed. Use only the thiram formulation and seed binder specified on the labeling. Do not dilute with water.

2,6-DICHLORO-4-NITROANILINE

	Site and Pest	Dosages and Formulation(s)	Tolerance, Use, Limitations
/05005AA /05006AA	Plum (preharvest) Prune (fresh) (preharvest)		15 ppm preharvest Last application at full bloom through 2.5 pounds per acre.
FBADMCB	Brown rot blossom and twig blight (Monilinia)	1.0 lb/ 100 gal [250 gal/A] (75% WP/D)	Delayed dormant and foliar application. Apply at popcorn and full bloom.
/05005EA /05006EA	Plum (postharvest) Prune (fresh) (postharvest)		15 ppm postharvest Do not exceed the recommendations stated for each use pattern below.
FIALMCB FIBFRAQ	Brown rot of fruit (Monilinia) Rhizopus fruit rot	1.61 lb/110 gal water (48.8% WP)	Postharvest treatment to nonstored plums and fresh prunes. Apply as a dip or spray over a suitable brush bed. Apply 1 gallon of dilute suspension to coat 2,000 to 2,500 pounds of fruit. Do not dip more than 2 minutes. Do not apply to early plums which may not be susceptible to decay. Formulated with thiophanate-methyl.
		3.22 lb/110 gal dilute wax (48.8% WP)	Postharvest treatment to nonstored plums and fresh prunes. Apply in a flow through system. Apply 1 gallon of dilute wax mixture to coat 2,000 to 2,500 pounds of fruit. Do not apply to early plums which may not be susceptible to decay. Formulated with thiophanate-methyl.

	Site and Pest	Dosages and Formulation(s)	Tolerance, Use, Limitations
	Plum (postharvest) cluster (continued)		
/05005EA	(Plum (postharvest))		
FIALMCB	Brown rot of fruit (Monilinia)	2.0 lb/100 gal water or 7.5-9.0 lb/ 100 gal water (75% WP/D)	Postharvest treatment to nonstored plums. Apply only with fruit wax.
FIBFRAQ	Rhizopus fruit rot		Apply during packing line operations using flat-fan or flood jet nozzles. Use mechanical agitation of wax mixture. With conventional applicators (30 to 50 gallons per hour), apply 100 gallons of mixture at 2.0 pound rate to approximately 50,000 pounds of fruit. With low volume applicators (5 to 8 gallons per hour), apply 100 gallons of mixture at 7.5 to 9.0 pound rate to approximately 500,000 pounds of fruit.
		1 gal 3% RTU/ 12,500 lb fruit (3% RTU)	Postharvest treatment to nonstored plums. Apply using a spray-brush applicator to washed and partially dried fruit.
FIBRFAQ	Rhizopus fruit rot	1 gal 9% F1C/ 75 gal ready-to-use wax emulsion or 3% a.i. mixture (9% F1C)	Postharvest treatment to nonstored plums. Apply 1 gallon of mixture using a spray-brush applicator to 12,500 pounds of washed and partially dried fruit.
/14013AA	Potato		0.25 ppm 14 day preharvest interval through 1.5 pounds per acre. Do not feed treated potatoes to livestock.
FBAABAW	Botrytis blight	1.5 lb/100 gal/A (75% WP/D)	Use limited to North Central States. Foliar application. Apply beginning at layby. Repeat at 10 to 14 day intervals.
FHANSAQ	White mold (Sclerotinia)		
	Prune (fresh) (preharvest)		See Plum (preharvest) cluster.
	Prune (fresh) (postharvest)		See Plum (postharvest) cluster.

2,6-DICHLORO-4-NITROANILINE

	Site and Pest	Dosages and Formulation(s)	Tolerance, Use, Limitations
	Red Raspberry	See Blackberry cluster.	
/130234CA	Rhubarb (greenhouse)		10 ppm 3 day preharvest interval through 1.0 pound per 100 gallons.
FIBKBAW	Botrytis leaf blight	1.0 lb/ 100 gal (75% WP/D)	Foliar application to greenhouse grown plants. Apply when first buds emerge from crowns. Repeat at 7 day intervals.
/14018DA	Sweet Potato (plant beds)		N.F. Do not plant tomatoes as a follow-up crop in beds.
FGAQMCC FBBCSAS	Scurf (Monilochaetes) Southern blight (Sclerotium)	0.75 lb/7.5 gal water (dip) or 2.25-2.81 lb/ 14 gal water (bed spray) (75% WP/D)	Dip treatment to seed-pieces for plant beds. Dip seed sweet potatoes 10 to 15 seconds in well-agitated suspension. Drain and bed promptly. Prepare fresh suspension daily. OR Seed-piece treatment in plant beds. Apply to 1,000 square feet of plant beds. Spray or sprinkle over bedded sweet potatoes before covering soil.
/14018EA	Sweet Potato (postharvest)		10 ppm postharvest Postharvest treatment through 900 ppm in water or wax. Do not rinse after treatment.
FICERAQ	Rhizopus soft rot	0.75 lb/100 gal water (75% WP/D)	Postharvest treatment to nonstored sweet potatoes. Dip treatment: Dip roots for 10 to 15 seconds in well-agitated suspension. Add 0.38 pound per 100 gallons of dip suspension after 500 bushels are treated. Drain and flush tank after each 1,000 bushels treated and refill with fresh dip suspension. Spray application: Apply using an 8001 fan-shaped nozzle at 50 to 75 pounds per square inch immediately after washing while the sweet potatoes are conveyed on chain rollers or belts. In recirculating systems, as volume decreases, make up to original volume. Where black rot is a problem, do not recirculate used spray.

2,6-DICHLORO-4-NITROANILINE

	Site and Pest	Dosages and Formulation(s)	Tolerance, Use, Limitations
	Sweet Potato (postharvest) (continued)		
		1 gal 9% F1C/ 100 gal water or 900 ppm a.i. (9% F1C)	Postharvest treatment to nonstored sweet potatoes. Spray or dip for 10 seconds immediately after washing. Do not reclaim used spray.
		1 gal 9% F1C/ 100 gal ready-to-use wax emulsion or 900 ppm a.i. (9% F1C)	Postharvest treatment to nonstored sweet potatoes. Apply by spray or flood to washed and drained sweet potatoes at a rate not more than 1 gallon of dilution per 750 pounds of sweet potatoes.
/11005CA	Tomato (greenhouse)		5 ppm No preharvest interval through 1.8 pounds per acre. Seedlings or newly set transplants may be injured by drenching.
FIDCBAW	Botrytis stem rot	1.8 lb/A (4-15% D) or 0.09 oz/50 ft of row (6% D) or 0.75 lb/ 100 gal (75% WP/D)	Foliar application to greenhouse grown plants. Apply to stem of plant from ground level up to a height of 18 to 24 inches. May be formulated with sulfur; or copper as cuprous and cupric oxide and sulfur.

2,6-DICHLORO-4-NITROANILINE

	Site and Pest	Dosages and Formulation(s)	Tolerance, Use, Limitations
	ORNAMENTALS		
	(Ornamental Plants (herbaceous plants and bulbs; woody shrubs, trees and vines))		
/31065DA	Chrysanthemum (nursery stock)		
/31108DA	Geranium (nursery stock)		
/34120DA	Rose (nursery stock)		
FBAABAW	Botrytis blight	1.8 lb/A (4-15% D) or 1.5 lb/A (5% D) or 0.09 oz/50 ft of row (6% D) or 0.38-0.56 lb/ 100 gal (75% WP/D)	Foliar application to stock cuttings. Apply when disease is anticipated or first appears. Apply to foliage and flowers at 7 to 14 day intervals. During prolonged damp, cool periods apply at 5 to 7 day intervals. May be formulated with sulfur; or captan.
	Refer to Rose (nursery stock) in Hydrangea (nursery stock) cluster for additional information.		
/31111AA	Gladiolus		
FIAPSEA	Dry rot (Stromatinia)	14.8-15.9 lb/A (4-15% D) (75% WP/D) or 12.5 lb/A (5% D) or 0.75 oz/50 ft of row (6% D)	Soil application. Apply per 14,520 linear feet of row using a 12 inch band centerd on furrow. Apply at planting so that treated soil surrounds corms. Apply wettable powder as a spray or dust. May be formulated with sulfur; or captan.

2,6-DICHLORO-4-NITROANILINE

	Site and Pest	Dosages and Formulation(s)	Tolerance, Use, Limitations
/31111FA	Gladiolus (cut flowers)		
FBAABAW	Botrytis blight	1.8 lb/A of cut flowers (4-15% D) or 1.5 lb/A of cut flowers (5% D) or 0.09 oz/50 row ft of cut flowers (6% D) or 0.56 lb/ 100 gal (75% WP/D)	Cut flower treatment. Apply thoroughly and force fungicide between spikes. Apply to bunched cut flower spikes after harvest and before shipment or storage. May be formulated with sulfur; or captan.
/34073DA /34073JD	Hydrangea (nursery stock)		
/34120DA /34120JD	Rose (nursery stock)		
FBAABAW	Botrytis blight	1.8 lb/A (4-15% D) or 1.5 lb/A (5% D) or 0.09 oz/50 ft of row (6% D) or 1.0 lb/ 100 gal (75% WP/D)	Foliar application to nursery stock. Apply prior to lifting for shipment or storage. Apply before disease appears. May be formulated with sulfur; or captan.
—		— (4-15% D) or 1.0 lb/ 100 gal (75% WP/D)	Application to stored plants and storage area. Thoroughly dust or spray storage area. Dust, spray, or dip all canes and dead foliage. Repeat during long storage periods. May be formulated with sulfur; or captan.
			Refer to Rose (nursery stock) in Chrysanthemum (nursery stock) cluster for additional information.

2,6-DICHLORO-4-NITROANILINE

	Site and Pest	Dosages and Formulation(s)	Tolerance, Use, Limitations
	Rose (nursery stock)	See Chrysanthemum (nursery stock) cluster and Hydrangea (nursery stock) cluster.	
	(Ornamental (and forest) Greenhouse Plants)		
/31065CA /31108CA /34120CA	Chrysanthemum Geranium Rose		
FBAABAW	Botrytis blight	1.8 lb/A (4-15% D) or 1.5 lb/A (5% D) or 0.09 oz/50 ft of row (6% D) or 0.38-0.56 lb/ 100 gal (75% WP/D)	Foliar application to greenhouse grown plants. Apply when disease is anticipated or first appears. Apply to foliage and flowers at 7 to 14 day intervals. During prolonged damp, cool periods apply at 5 to 7 day intervals. May be formulated with sulfur; or captan.

2,6-DICHLORO-4-NITROANILINE

Site and Pest	Dosages and Formulation(s)	Tolerance, Use, Limitations
AERIAL AND TANK MIX APPLICATIONS		
9001500 AAAAAAA Aerial Application		
--	Refer to AGRICULTURAL CROPS	All sites
	ORNAMENTALS	All sites
9900300 AAAAAAA Tank Mix		
--	Refer to AGRICULTURAL CROPS	Apricot, Cherry (sweet), Grapes, Nectarine, Peach, Peanuts

2,6-DICHLORO-4-NITROANILINE

Listing of Registered Pesticide Products by Formulation

95% technical chemical
2,6-dichloro-4-nitroaniline (031301)
001023-00057

90% formulation intermediate
2,6-dichloro-4-nitroaniline (031301)
001023-00043

4% dust
2,6-dichloro-4-nitroaniline (031301)
001023-00042

5% dust
2,6-dichloro-4-nitroaniline (031301) plus captan (081301)
000239-02307 000239-02309

6% dust
2,6-dichloro-4-nitroaniline (031301)
000279-02386 000550-00042 000635-00485 000769-00355
001023-00035 001202-00273 001526-00442 002935-00402
011169-00001

2,6-dichloro-4-nitroaniline (031301) plus sulfur (077501)
000148-00722 000148-00863 000279-02424 000279-02498
000279-02518 000279-02613 000769-00356 002935-00403
011169-00002

2,6-dichloro-4-nitroaniline (031301), copper oxychloride sulfate (023503) plus sulfur (077501)
000279-02611

2,6-dichloro-4-nitroaniline (031301), naled (034401) plus sulfur (077501)
000279-02351

2,6-dichloro-4-nitroaniline (031301), copper as cuprous and cupric oxide (042403) plus sulfur (077501)
000148-00849

2,6-dichloro-4-nitroaniline (031301), sulfur (077501) plus captan (081301)
000279-02963 00769-00358

8% dust
2,6-dichloro-4-nitroaniline (031301)
001023-00019

10% dust
2,6-dichloro-4-nitroaniline (031301)
001023-00041

Listing of Registered Pesticide Products by Formulation (continued)

12% dust
2,6-dichloro-4-nitroaniline (031301)
001023-00039

15% dust
2,6-dichloro-4-nitroaniline (031301)
001023-00040

20% dust
2,6-dichloro-4-nitroaniline (031301) plus captan (081301)
000239-02408

2,6-dichloro-4-nitroaniline (031301) plus captafol (081701)
000239-02407

30% dust
2,6-dichloro-4-nitroaniline (031301) plus captan (081301)
001023-00049

35% dust
2,6-dichloro-4-nitroaniline (031301) plus captan (081301)
000239-02274

2,6-dichloro-4-nitroaniline (031301) plus captafol (081701)
000239-02273

50% dust
2,6-dichloro-4-nitroaniline (031301)
000550-00086

48.8% wettable powder
2,6-dichloro-4-nitroaniline (031301) plus thiophanate-methyl (102001)
004581-00341

75% wettable powder/dust
2,6-dichloro-4-nitroaniline (031301)
000769-00395 001023-00036 002749-00186

2% emulsifiable concentrate
2,6-dichloro-4-nitroaniline (031301) plus orthophenylphenol (064103)
004581-00343

9% flowable concentrate
2,6-dichloro-4-nitroaniline (031301)
008764-00014

30% (2.82 lb/gal) flowable concentrate
2,6-dichloro-4-nitroaniline (031301)
007501-00028

Listing of Registered Pesticide Products by Formulation (continued)

0.5% liquid-ready to use
2,6-dichloro-4-nitroaniline (031301)
008764-00007

3% liquid-ready to use
2,6-dichloro-4-nitroaniline (031301)
008764-00015

2,6-DICHLORO-4-NITROANILINE

9999999 State Label Registrations

AZ Reg. No.
004581-04385

CA Reg. No.

000148-05206	000148-05206	000148-05209	000239-04232
000239-04233	000239-04252	001202-05087	001202-05088
002935-06626	004581-04391	005967-05182	005967-05183
006973-03594	006973-03595	006973-03600	007001-07674
007001-07676	008764-07255	010972-06248	011369-08783
011369-08787	011369-08804	011656-05770	011656-05771
035296-05817			

GA Reg. No.

004581-04401	010873-05407	010873-07141

MD Reg. No.
004581-04400

NC Reg. No.
004581-04399

NJ Reg. No.

004581-04396	005131-06784

PA Reg. No.
004581-04398

SC Reg. No.
004581-04397

VA Reg. No.
004581-04402

WA Reg. No.
004581-04393

II. REQUIREMENT FOR SUBMISSION OF GENERIC DATA

A. This portion of the guidance document is a Notice issued under the authority of FIFRA Section 3(c)(2)(B) and describes, in table format, the data required for maintaining the registrability of each product. Additionally, a bibliography (Appendix II-1) is included that identifies that data considered as part of the data base supporting this standard. EPA has determined that additional generic data described in this Notice must be submitted to EPA for evaluation in order to maintain in effect the registration(s) of your product(s) identified as an attachment to the cover letter accompanying this guidance document. As required by FIFRA Section 3(c)(2)(B), you are required to take appropriate steps to comply with this Notice.

EPA may suspend the registration of each of those products unless, within the specified time, you have informed EPA how you will satisfy the requirements of this Notice. Any such suspension will remain in effect until you have complied with the terms of this Notice.

B. What Generic Data [1/] Must Be Submitted. You may ascertain which generic data you must submit by consulting Table A at the end of this chapter. That table shows all the generic data needed to evaluate the continued registrability of all products, and the dates by which the data must be submitted. The required data must be submitted [2/]. Any necessary studies must be conducted in accordance with EPA-approved protocols, the Pesticide Registration Guidelines, or data collected under the approved protocols of the Organization for Economic Cooperation and Development (OECD). If you wish not to develop data which are necessary to support the registration or reregistration of certain uses appearing in your labeling, you may delete those uses at the time you submit your revised labeling.

Also for certain kinds of testing (generally ecological effects), EPA requires the test substance to be a "typical formulation," and in those cases EPA needs data of that

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1/ Generic data pertain to the properties or effects of a particular ingredient, and thus are relevant to an evaluation of the risks of all products containing that ingredient (or all such products having a certain use pattern), regardless of any such product's unique composition or use. Product-specific data relate only to the properties or effects of a product with a particular composition (or a group of products with closely similar composition).

2/ USEPA, 1982. Pesticide Registration; Proposed Data Requirements Part 158. FEDERAL REGISTER of November 24, 1982 (47 FR 53192)

type for each major formulation category (e.g., emulsifiable concentrates, wettable powders, granulars, etc.) These are classified as generic data and when needed are specified in Table A. EPA may possess data on certain "typical formulations" but not others. Note: The "typical formulation" data should not be confused with product-specific data (Table B) which are required on each formulation. Product-specific data are further explained in Chapter IV of this document.

C. Options Available for Complying With Requirements to Submit Data

Within 90 days of your receipt of this Notice you must submit to EPA a completed copy of the form entitled "FIFRA Section 3(c)(2)(B) Summary Sheet" [EPA Form 8580-1, Appendix II-2] for each of your products. On that form you must state which of the following methods you will use to comply with the requirements of this Notice:

1. (a) Notify EPA that you will submit the data, and

   (b) either submit the existing data you believe will satisfy the requirement, or state that you will generate the data by conducting testing. If the test procedures you will use deviate from (or are not specified in) the Registration Guidelines or protocols contained in the Reports of Expert Groups to the Chemicals Group, Organization for Economic Cooperation and Development (OECD) Chemicals Testing Programme, you must enclose the protocols you will use.

2. Notify EPA that you have entered into an agreement with one or more other registrants to jointly develop (or share in the cost of developing) the data. If you elect this option, you must notify EPA which registrant(s) are parties to the agreement.

3. File with EPA a completed "Certification of Attempt to Enter Into an Agreement With Other Registrants for Development of Data" (EPA Form 8580-6, Appendix II-3)*/

4. Request that EPA amend your registration by deleting the uses for which the data are needed. (This option is not available to applicants for new products.)

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*/ FIFRA Section 3(c)(2)(B) authorizes joint development of data by two or more registrants, and provides a mechanism by which parties can obtain an arbitrator's decision if they agree to jointly develop data but fail to agree on all the terms of the agreement. The statute does not compel any registrant to agree to develop data jointly.
(Footnote continued at bottom of next page)

5. Request voluntary cancellation of the registration(s) of your products for which the data are needed. (This option is not available to applicants for new products.)

D. Procedures for Requesting Changes in Testing Methodology and Extensions of Time

EPA recognizes that you may disagree with our conclusions regarding the appropriate ways to develop the required data or how quickly the data must be submitted. If the test procedures you plan to use deviate from (or are not specified in) the registration guidelines or protocols contained in the reports of the Expert Groups to the Chemical Groups, Organization for Economic Cooperation and Development (OECD) Chemicals Testing Programme, you must submit the protocol for Agency review prior to the initiation of the test.

If you think that you will need more time to generate the required data than is allowed by EPA's schedule, you may submit a request for an extension of time. The extension request must be submitted in writing to the Product Manager. The extension request should state the reasons why you conclude that an extension is appropriate. While EPA considers your request, you must strive to meet the deadline for submitting the required data.

(Footnote continued from bottom of previous page)

In EPA's opinion, joint data development by all registrants who are subject to the requirements to submit a pertinent item of data or a cost-sharing agreement among all such registrants is clearly in the public interest. Duplication of testing could increase costs, tie up testing facilities, and subject an unnecessarily large number of animals to testing.

As noted earlier, EPA has discretion not to suspend the registration of a product when a registrant fails to submit data required under FIFRA Section 3(c)(2)(B). EPA has concluded that it is appropriate to exercise its discretion not to suspend in ways which will discourage duplicative testing. Accordingly, if (1) a registrant has informed us of his intent to develop and submit data required by this Notice; and (2) a second registrant informs EPA that it has made a bona fide offer to the first registrant to share in the expenses of the testing [on terms to be agreed upon or determined by arbitration under FIFRA Section 3(c)(2)(B)(iii)]; and (3) the first registrant has declined to agree to enter into a cost-sharing agreement, EPA will not suspend the second firm's registration. While the first firm is not required to agree to jointly develop data, EPA is not required to force the second firm to engage in economically inefficient duplicative testing in order to maintain its registration.

TABLE A
GENERIC DATA REQUIREMENTS FOR DCNA

Data Requirement	Composition 1/	Does EPA Have Data To Satisfy This Requirement? (Yes, No or Partially)	Bibliographic Citation	Must Additional Data Be Submitted Under FIFRA Section 3(c)(2)(B)? 2/7/
§158.120 Product Chemistry				
Product Identity:				
61-1 - Identity of Ingredients	TGAI	Yes	--	Yes
61-2 - Statement of Composition	TGAI	Partially[4]	GS0113054	Yes
61-3 - Discussion of Formation of Ingredients	TGAI	No	--	Yes
Analysis and Certification of Product Ingredients				
62-1 - Preliminary Analysis	TGAI	Partially[5]	GS0113052	Yes
62-2 - Certification of Limits	TGAI	Partially[6]	GS0113052,GS0113053 GS0113055	Yes
62-3 - Analytical Methods for Enforcement of Limits	TGAI	Partially[8]	GS0113057	Yes
Physical and Chemical Characteristics				
63-2 - Color	TGAI	Yes	GS0113054	No
63-3 - Physical State	TGAI	Yes	GS0113054,GS0113052	No
63-4 - Odor	TGAI	No	--	Yes
63-5 - Melting Point	TGAI	Yes	GS0113054	No
63-6 - Boiling Point	--	N/A	--	--
63-7 - Density, Bulk Density, or Specific Gravity	TGAI	No	--	Yes

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TABLE A
GENERIC DATA REQUIREMENTS FOR DCNA

Data Requirement	Composition 1/	Does EPA Have Data To Satisfy This Requirement? (Yes, No or Partially)	Bibliographic Citation	Must Additional Data Be Submitted Under FIFRA Section 3(c)(2)(B)?2/7/
§158.120 Product Chemistry (continued)				
63- 8 - Solubility	TGAI OR PAI	Partially[3]	GS0113054	Yes
63- 9 - Vapor Pressure	PAI	No	—	Yes
63-10 - Dissociation constant	PAI	No	—	Yes
63-11 - Octanol/water partition coefficient	PAI	No	—	Yes
63-12 - pH	TGAI	Yes	GS0113055	No
63-13 - Stability	TGAI	Yes	GS0113054	No
Other Requirements:				
64- 1 - Submittal of samples	N/A	N/A	—	No

1/ Composition: TGAI = Technical grade of the active ingredient; PAI = pure active ingredient.
2/ Data must be submitted no later than 6 months from the date of this Standard.
3/ A quantitative value for water only is requested.
4/ The purity of starting materials and quality control measures are lacking; names and addresses of producers of materials are required.
5/ 5 or more recent samples must be analyzed.
6/ Identities and upper limits of unintentional ingredients; upper and lower limits for DCNA and inerts; analysis for nitrosamines.
7/ All 158.120 data must be submitted for each MP registered.
8/ Quantitative methods to determine manufacturing impurities are needed.

TABLE A
GENERIC DATA REQUIREMENTS FOR DCNA

Data Requirements	Composition 1/	Does EPA Have Data To Satisfy This Requirement? (Yes, No, or Partially)	Bibliographic Citation	Must Additional Data Be Submitted Under FIFRA Section 3(c)(2)(B)? 2/
§158.125 Residue Chemistry				
171-4 - Nature of Residue (Metabolism)				
- Plants	PAIRA	Partially[15]	GS0113050	Yes
- Livestock	PAIRA and plant metabolites	Partially[3]	GS0113060 & GS0113061	Yes
171-4 - Residue Analytical Method				
- Plant residues	TGAI and metabolites	Yes	GS0113062 & GS0113063	No
- Animal residues	TGAI and metabolites	No[16]	--	Yes
171-4 - Storage Stability Data	PAI	Partially[4]	GS0113064	Yes
171-4 - Magnitude of the Residue-Residue Studies for Each Food Use				
- Crop Group - Root and Tuber Vegetable				
o Carrots				
-- Crop field trials	TEP	Yes	GS0113065 & GS0113066	No
-- Processed Food/Feed	EP	Yes	GS0113067	No
° Potatoes				
-- Crop field trials	TEP	Partially[7]	GS0113068	Yes
-- Processed Food/Feed	EP	No	--	Yes[6]

TABLE A
GENERIC DATA REQUIREMENTS FOR DCNA

Data Requirements	Composition 1/	Does EPA Have Data To Satisfy This Requirement? (Yes, No, or Partially)	Bibliographic Citation	Must Additional Data Be Submitted Under FIFRA Section 3(c)(2)(B)? 2/
§158.125 Residue Chemistry continued				
171-4 - Magnitude of the Residue continued				
° Sweet Potatoes				
-- Crop field trials	TEP	Partially[17]	GS0113069, GS0113070, GS0113071 & GS0113072	Yes
-- Processed Food/Feed	EP	N/A	--	--
- Crop Group - Bulb Vegetables				
° Garlic				
-- Crop field trials	TEP	Yes	GS0113073	No
-- Processed Food/Feed	EP	N/A	--	--
° Onions				
-- Crop field trials	TEP	Partially[8]	GS0113074, GS0113075 & GS0113076	Yes
-- Processed Food/Feed	EP	N/A	--	--
- Crop Group - Leafy Vegetables (except Brassica Vegetables)				
° Celery				
-- Crop field trials	TEP	Yes	GS0113077 & GS0113078	No
-- Processed Food/Feed	EP	N/A		--

TABLE A
GENERIC DATA REQUIREMENTS FOR DCNA

Data Requirement	Composition 1/	Does EPA Have Data To Satisfy This Requirement? (Yes, No or Partially)	Bibliographic Citation	Must Additional Data Be Submitted Under FIFRA Section 3(c)(2)(B)? 2/
§158.125 Residue Chemistry (continued)				
171-4 - Magnitude of the Residue - Residue Studies (continued)				
o Endive				
-- Crop field trials	TEP	Yes	GS0113079 & GS0113080	No
-- Processed Food/Feed	EP	N/A	--	--
° Lettuce				
-- Crop field trials	TEP	Yes	GS0113079 & GS0113080	No
-- Processed Food/Feed	EP	N/A	--	--
° Rhubarb				
-- Crop field trials	TEP	Yes	GS0113081 & GS0113082	No
-- Processed Food/Feed	EP	N/A	--	--
- Crop Group - Legume Vegetables				
° Snap Beans				
-- Crop field trials	TEP	Yes	GS0113083 & GS0113084	No
-- Processed Food/Feed	EP	N/A	--	--

TABLE A
GENERIC DATA REQUIREMENTS FOR DCNA

Data Requirement	Composition 1/	Does EPA Have Data To Satisfy This Requirement? (Yes, No or Partially)	Bibliographic Citation	Must Additional Data Be Submitted Under FIFRA Section 3(c)(2)(B)? 2/
§158.125 Residue Chemistry (continued)				
171-4 - Magnitude of the Residue - Residue Studies (continued)				
- Crop Group - Fruiting Vegetables (except cucurbits)				
o Tomatoes (Greenhouse grown only)				
-- Crop field trials	TEP	Yes	GS0113085, GS0113086, GS0113087 & GS0113088	No
-- Processed Food/Feed	EP	No[9]	--	Yes
- Crop Group - Fruiting Vegetables (cucurbits)				
° Cucumbers				
-- Crop field trials	TEP	Yes	GS0113089	No
-- Processed Food/Feed	EP	N/A	--	--
- Crop Group - Stone Fruits				
° Apricots				
-- Crop field trials	TEP	Partially[10]	GS0113090, GS0113091, GS0113092, GS0113093, & GS0113094	Yes
-- Processed Food/Feed	EP	N/A	--	--

TABLE A
GENERIC DATA REQUIREMENTS FOR DCNA

Data Requirement	Composition 1/	Does EPA Have Data To Satisfy This Requirement? (Yes, No or Partially)	Bibliographic Citation	Must Additional Data Be Submitted Under FIFRA Section 3(c)(2)(B)? 2/
§158.125 Residue Chemistry (continued)				
171-4 - Magnitude of the Residue - Residue Studies (continued)				
o Cherries (sweet)				
-- Crop field trials	TEP	Partially11	GS0113085, GS0113086, GS0113087 & GS0113098	Yes
-- Processed Food/Feed	EP	N/A	--	--
° Nectarines				
-- Crop field trials	TEP	Partially11	GS0113099, GS0113100, GS0113101 & GS0113102	Yes
-- Processed Food/Feed	EP	N/A	--	--
° Peaches				
-- Crop field trials	TEP	Partially11	GS0113103, GS0113104, GS0113105, GS0113106, GS0113107 & GS0113108	Yes
-- Processed Food/Feed	EP	N/A	--	--
° Plums				
-- Crop field trials	TEP	Partially11	GS0113109, GS0113110, GS0113111, GS0113098, & GS0113087	Yes
-- Processed Food/Feed	EP	N/A	--	--

TABLE A
GENERIC DATA REQUIREMENTS FOR DCNA

Data Requirement	Composition 1/	Does EPA Have Data To Satisfy This Requirement? (Yes, No or Partially)	Bibliographic Citation	Must Additional Data Be Submitted Under FIFRA Section 3(c)(2)(B)? 2/
§158.125 Residue Chemistry (continued)				
171-4 - Magnitude of the Residue - Residue Studies (continued)				
- Crop Group - Small Fruits and Berries				
o Blackberries				
-- Crop field trials	TEP	Partially[12]	GS0113109	Yes
-- Processed Food/Feed	EP	N/A	--	--
° Boysenberries				
-- Crop field trials	TEP	Partially[12]	GS0113109	Yes
-- Processed Food/Feed	EP	N/A	--	--
° Grapes				
-- Crop field trials	TEP	Yes	GS0113086, GS0113087, GS0113109 & GS0113114	No
-- Processed Food/Feed	EP	Partially[13]	GS0113114	Yes
° Raspberries				
-- Crop field trials	TEP	Partially[12]	GS0113109	Yes
-- Processed Food/Feed	EP	N/A	--	--

TABLE A
GENERIC DATA REQUIREMENTS FOR DCNA

Data Requirement	Composition 1/	Does EPA Have Data To Satisfy This Requirement? (Yes, No or Partially)	Bibliographic Citation	Must Additional Data Be Submitted Under FIFRA Section 3(c)(2)(B)? 2/
§158.125 Residue Chemistry (continued)				
171-4 - Magnitude of the Residue - Residue Studies (continued)				
- Crop Group - Miscellaneous commodities				
o Cottonseed				
-- Crop field trials	TEP	Yes	GS0113086, GS0113087, GS0113109 & GS0113115	No
-- Processed Food/Feed	EP	No[14]	--	Yes
° Kiwi fruit				
-- Crop field trials	TEP	Partially[5]	GS0113116, GS0113117, GS0113118 & GS0113119	Yes
-- Processed Food/Feed	EP	N/A	--	--
° Peanut hay, hulls, and seed (pending tolerances)				
-- Crop field trials	TEP	In Agency review	--	--
-- Processed Food/Feed	EP	In Agency review	--	--

TABLE A
GENERIC DATA REQUIREMENTS FOR DCNA

Data Requirement	Composition 1/	Does EPA Have Data To Satisfy This Requirement? (Yes, No or Partially)	Bibliographic Citation	Must Additional Data Be Submitted Under FIFRA Section 3(c)(2)(B)? 2/
§158.125 Residue Chemistry (continued)				
171-4 - Magnitude of the Residue - Residue Studies (continued)				
- Potable Water	EP	N/A	--	--
- Fish	EP	N/A	--	--
- Irrigated Crops	EP	N/A	--	--
-- Field trials	EP	N/A	--	--
-- Processed Food/Feed	EP	N/A	--	--
- Food Handling	EP	N/A	--	--
- Meat/milk/poultry/eggs (pending tolerances)	TGAI or plant metabolites	In Agency review	--	--

1/ Composition: TGAI = Technical grade of the active ingredient; PAIRA = Pure active ingredient, radiolabelled; TEP = Typical end-use product; EP = End-use product.
2/ Data must be submitted no later than 48 months from issuance of the standard.
3/ Identification of the metabolites in the muscle and liver of a ruminant after oral administration of ^{14}C ring labeled DCNA. In addition a ^{14}C DCNA poultry and swine study is required characterizing the residues in eggs and tissues respectively.
4/ Storage stability data involving meat, milk and eggs required.
5/ Recovery data required to validate the method used in the collection of the residue data.
6/ A processing study for dried potatoes, potato granules and chips are required.
7/ Additional residue data resulting from the use of irrigation equipment and aerial application are required or submission of recovery data from a benzene extraction and use of an EC-GC detector.
8/ Additional data on onion grown in Texas and California for dryland production.
9/ Residue data for field trials and processing fractions required for field grown tomatoes if that use were to be registered.
10/ Data on post harvest dip treatments with 48.8% WP formulation is needed that reflect total use pattern.
11/ Additional data reflecting total use pattern.
12/ Residue data involving 4 applications of the 75% WP/D and any 4 to 15% D formulations at 2.5 and 3 lb/A respectively
13/ Additional data on raisin waste, wet and dry pomace and on grape juice reflecting total registered uses.
14/ Residue data on cottenseed hulls, meat, oil, and soapstock processed from field treated cottonseed containing residue of DCNA at or near the tolerance level.
15/ Data is needed to clearly identify and quantify DCNA metabolites.
16/ Methodology for the analysis of residues in meat, milk, poultry, and eggs are needed.
17/ Postharvest spray dip, or flood application to washed and unwashed with 9% flowable concentrate at 900 ppm active ingredient. Treatments should include a ready-to-use wax emulsion.

TABLE A
GENERIC DATA REQUIREMENTS FOR DCNA

Data Requirement	Composition 1/	Use Pattern 2/	Does EPA Have Data To Satisfy This Requirement? (Yes, No or Partially)	Bibliographic Citation	Must Additional Data Be Submitted Under FIFRA Section 3(c)(2)(B)? 3/
§158.130 Environmental Fate					
DEGRADATION STUDIES-LAB:					
161-1 - Hydrolysis	TGAI or PAIRA	A,B,E,F	No[8]	--	Yes
Photodegradation					
161-2 - In water	TGAI or PAIRA	A,B,E,F	No[8]	--	Yes
161-3 - On soil	TGAI or PAIRA	A	No[8]	--	Yes
161-4 - In Air	TGAI or PAIRA	N/A[4]	No	--	No
METABOLISM STUDIES-LAB:					
162-1 - Aerobic Soil	TGAI or PAIRA	A,B,E,F	Partially[13]	00086942	Yes
162-2 - Anaerobic Soil	TGAI or PAIRA	A	No[8]	--	Yes
162-3 - Anaerobic Aquatic	--	N/A	--	--	--
162-4 - Aerobic Aquatic	--	N/A	--	--	--
MOBILITY STUDIES:					
163-1 - Leaching and Adsorption/Desorption	TGAI or PAIRA	A,B,E,F	No[11]	--	Yes
163-2 - Volatility (Lab)	TEP	E,F	No	--	Yes
163-3 - Volatility (Field)	TEP	N/A[4]	--	--	--

TABLE A
GENERIC DATA REQUIREMENTS FOR DCNA

Data Requirement	Composition 1/	Use Pattern 2/	Does EPA Have Data To Satisfy This Requirement? (Yes, No or Partially)	Bibliographic Citation	Must Additional Data Be Submitted Under FIFRA Section 3(c)(2)(B)? 3/
§158.130 Environmental Fate (continued)					
DISSIPATION STUDIES-FIELD:					
164-1 - Soil	TEP	A,B	No[12]	—	Yes
164-2 - Aquatic (Sediment)	—	N/A	--	--	--
164-3 - Forestry	—	N/A[5]	--	--	--
164-4 - Combination and Tank Mixes	—	N/A[6]	--	--	--
164-5 - Soil, Long-term	TEP	A	No	—	Yes[7]
ACCUMULATION STUDIES:					
165-1 - Rotational Crops (Confined)	PAIRA or TGAI	A	No[8]	—	Yes
165-2 - Rotational Crops (Field)	TEP	A	No[9]	—	Yes
165-3 - Irrigated Crops	—	N/A	--	--	--
165-4 - In Fish	TGAI or PAIRA	A,B	No	--	Yes[10]
165-5 - In Aquatic Non-Target Organisms	—	N/A	--	--	—

TABLE A
GENERIC DATA REQUIREMENTS FOR DCNA

§158.130 Environmental Fate
(continued)

1/ Composition: TGAI = Technical grade of the active ingredient; PAIRA = Pure active ingredient, radiolabelled; TEP = Typical end-use product; N/A = not applicable
2/ The use patterns are coded as follows: A=Terrestrial, Food Crop; B=Terrestrial, Non-Food; E=Greenhouse, Food Crop F=Greenhouse, Non-Food
3/ Data must be submitted no later than 48 months after the issuance of the standard.
4/ Data not required due to tentative vapor pressure (1.2×10^{-6}), low water solubility, and high soil adsorption.
5/ No forest use of DCNA
6/ Data requirement not being implemented for this standard.
7/ Data requiremtent depends on results of th aerobic soil metabolism and terrestrial dissipation studies.
8/ No data submitted, all data required.
9/ No data submitted, however, all data may be required based on results of the confined study.
10/ Required if significant concentrations are likely to be found in aquatic environments.
11/ Bioassay did not provide reliable data; both leaching and adsorption/desorption data are required.
12/ Controls contaminated, pattern of decline not established; all data required.
13/ Additional data required, i.e., 1/2 life in unamended soil and decline of degradates.

TABLE A
GENERIC DATA REQUIREMENTS FOR DCNA

Data Requirement	Composition 1/	Use Patterns 2/	Does EPA Have Data To Satisfy This Requirement? (Yes, No or Partially)	Bibliographic Citation	Must Additional Data Be Submitted Under FIFRA Section 3(c)(2)(B)?3/
§158.135 Toxicology					
ACUTE TESTING:					
81-1 - Oral LD_{50} - Rat	TGAI	A,B,E,F	Yes	00096966,00086879	No
81-2 - Dermal LD_{50}	TGAI	A,B,E,F	Yes	00086894	No
81-3 - Inhalation LC_{50} - Rat	TGAI	A,B,E,F	Yes	00086879	No
81-7 - Acute Delayed Neurotoxicity - Hen	TGAI	--	Not required	--	--
SUBCHRONIC TESTING:					
82-1 - 90-Day Feeding - Rodent, Non-rodent	TGAI	A,F	Not required[9]	--	--
82-2 - 21-Day Dermal	TGAI	A,B,E,F	No	--	Yes
82-3 - 90-Day Dermal	TGAI	A,B,E,F	Not applicable[4]	--	--
82-4 - 90-Day Inhalation - Rat	TGAI	A,B,E,F	Not required[5]	--	--
82-5 - 90-Day Neurotoxicity-Hen/Mammal	TGAI	A,B,E,F	Not required	--	--

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TABLE A
GENERIC DATA REQUIREMENTS FOR DCNA

Data Requirement	Composition 1/	Use Pattern 2/	Does EPA Have Data To Satisfy This Requirement? (Yes, No or Partially)?	Bibliographic Citation	Must Additional Data Be Submitted Under FIFRA Section 3(c)(2)(B)?3/
§158.135 Toxicology (continued)					
CHRONIC TESTING:					
83-1 - Chronic Toxicity - Rat Dog	TGAI	A,B,E,F	Yes	00082717,00082719 00085718,00026810	No
83-2 - Oncogenicity Study - Rat and Mouse	TGAI	A,B,E,F	Partially6	0008271 ,00082719	Yes
83-3 - Teratogenicity - Rabbit	TGAI	A,B,E,F	Partially10	00080869	Yes
83-4 - Reproduction, 2-generation	TGAI	A,B,E,F	Yes	00082269	No
MUTAGENICITY TESTING					
84-2 - Gene Mutation	TGAI	A,B,E,F	No7	-	Yes
84-2 - Chromosomal Aberration	TGAI	A,B,E,F	No7	-	Yes
84-2 - Other Mechanisms of Mutagenicity	TGAI	A,B,E,F	No7	-	Yes

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TABLE A
GENERIC DATA REQUIREMENTS FOR DCNA

Data Requirement	Composition 1/	Use Pattern 2/	Does EPA Have Data To Satisfy This Requirement? (Yes, No or Partially)	Bibliographic Citation	Must Additional Data Be Submitted Under FIFRA Section 3(c)(2)(B)? 3/
§158.135 Toxicology (continued)					
SPECIAL TESTING					
85-1 - General Metabolism	PAI or PAIRA	A,B,E,F	Partially[7]	00096066,00082672	Yes
85-2 - Domestic Animal Safety	Choice	A	Yes[8]	00087015	Yes
Oculotoxicity	TGAI	A,B,E,F	No	—	Yes[11]
Cataractogenicity	TGAI	A,B,E,F	No	—	Yes[11]

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1/ Composition: PAI = Pure active ingredient; PAIRA = Pure active ingredient, radiolabelled; Choice = Choice of several test substances determined on a case-by-case basis.
2/ The use patterns are coded as follows: A=Terrestrial, food use; B = Terrestrial, non-food; E = Greenhouse, food use; F = Greenhouse, non-food.
3/ Data must be submitted no later than 48 months from the issuance of the standard
4/ Due to the mode of use, a 90 day dermal study is not required, a 21 day dermal study will suffice.
5/ The inhalation toxicity of DCNA is very low in the acute study, therefore subchronic inhalation study will not be required.
6/ Requires a mouse oncogenicity study.
7/ The submitted studies were graded unacceptable or supplementary data.
8/ Photosensitization data, information regarding eye pathology in 2 year chronic studies, and another study with emphasis on the eye as target organ are warranted.
9/ Subchronic oral effects are evaluated in conjunction with the 2 chronic feeding studies.
10/ Requires an additional teratology study.
11/ Required as DCNA is suspected to induce a systemic effect as ocular toxicity or opacity of the cornea.

TABLE A
GENERIC DATA REQUIREMENTS FOR DCNA

Data Requirement	Composition 1/	Pattern 2/	Does EPA Have Data To Satisfy This Requirement? (Yes, No or Partially)	Bibliographic Citation	Must Additional Data Be Submitted Under FIFRA Section 3(c)(2)(B)? 3/
§158.140 Reentry Protection					
132-1 - Foliar Dissipation	TEP	-	No	-	-
132-1 - Soil Dissipation	TEP	-	No	-	-
133-3 - Dermal Exposure	TEP	-	No	-	-
133-4 - Inhalation Exposure	TEP	-	No	-	-

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1/ Composition: TEP = Typical end-use product.
2/ The use patterns are coded as follows: A=Terrestrial, Food Crop; B=Terrestrial, Non-Food; C=Aquatic, Food Crop; D=Aquatic, Non-Food; E=Greenhouse, Food Crop; F=Greenhouse, Non-Food; G=Forestry; H=Domestic Outdoor; I=Indoor.
3/ These data requirements are being held in reserve, pending evaluation of required toxicological data.

TABLE A
GENERIC DATA REQUIREMENTS FOR DCNA

Data Requirement	Composition 1/	Use Pattern 2/	Does EPA Have Data To Satisfy This Requirement? (Yes, No or Partially)	Bibliographic Citation	Must Additional Data Be Submitted Under FIFRA Section 3(c)(2)(B)?3/
§158.145 Wildlife and Aquatic Organisms					
AVIAN AND MAMMALIAN TESTING					
71-1 - Avian Oral LD_{50}	TGAI	A,B,E,F	No	--	Yes
71-2 - Avian Dietary LC_{50}	TGAI	A,B,E,F	Partially[6]	00087027	Yes
71-3 - Wild Mammal Toxicity	TGAI	A	Not applicable	--	--
71-4 - Avian Reproduction	TGAI	A,B	No	--	Reserved[4]
71-5 - Simulated and Actual Field Testing - Mammals and Birds	TEP	A,B	No	--	No
AQUATIC ORGANISM TESTING					
72-1 - Freshwater Fish LC_{50}	TGAI	A,B	Yes	00096064,00087028 00096058	No
72-2 - Acute LC_{50} Freshwater Invertebrates	TGAI	A,B	No	--	Yes
72-3 - Acute LC_{50} Estuarine and Marine Organisms	TGAI	A,B	Not required	--	--
72-4 - Fish Early Life Stage and Aquatic Invertebrate Life-Cycle	TGAI	A,B	No	--	Reserved[4]

TABLE A
GENERIC DATA REQUIREMENTS FOR DCNA

Data Requirement	Composition 1/	Use Pattern 2/	Does EPA Have Data To Satisfy This Requirement? (Yes, No or Partially)	Bibliographic Citation	Must Additional Data Be Submitted Under FIFRA Section 3(c)(2)(B)? 3/
§158.145 Wildlife and Aquatic Organisms (continued)					
72-5 - Fish - Life-Cycle	TGAI	A,B	No	--	Reserved 4
72-6 - Aquatic Organism Accumulation	TGAI, PAI OR Degradation Product	A,B	No 5	--	No
72-7 - Simulated or Actual Field Testing - Aquatic Organisms	TEP	A,B	No	--	Reserved 4

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1/ Composition: TGAI = Technical grade of the active ingredient; PAI = pure active ingredient; TEP = Typical end-use product;
2/ The use patterns are coded as follows: A=Terrestrial, Food Crop; B=Terrestrial, Non-Food Crop; E=Greenhouse, Food crop; F=Greenhouse, Non-Food.
3/ Data must be submitted no later than 48 months for the issuance of the standard
4/ Reserved pending Environmental Fate data.
5/ Not normally required
6/ Technical material must be used in the study.

TABLE A
GENERIC DATA REQUIREMENTS FOR DCNA

Data Requirements	Composition 1/	Use Pattern 2/	Does EPA Have Data To Satisfy This Requirement? (Yes, No or Partially)	Bibliographic Citation	Must Additional Data Be Submitted Under FIFRA Section 3(c)(2)(B)? 3/
§158.150 Plant Protection					
121-1 - TARGET AREA PHYTOTOXICITY	EP		No	-	No 4/
NONTARGET AREA PHYTOTOXICITY					
TIER I					
122-1 - Seed Germination/ Seedling Emergence	TGAI		No	-	No 4/
122-1 - Vegetative Vigor	TGAI		No	-	No 4/
122-2 - Aquatic Plant Growth	TGAI		No	-	No 4/
TIER II					
123-1 - Seed Germination/ Seedling Emergence	TGAI		No	-	No 4/
123-1 - Vegetative Vigor	TGAI		No	-	No 4/
123-2 - Aquatic Plant Growth	TGAI		No	-	No 4/
TIER III					
124-1 - Terrestrial Field	TEP		No	-	No 4/
124-2 - Aquatic Field	TEP		No	-	No 4/

1/ Composition: TGAI = Technical grade of the active ingredient; TEP = Typical end-use product.
EP = End-use product.

2/ The use patterns are coded as follows: A=Terrestrial, Food Crop; B=Terrestrial, Non-Food Crop; C=Aquatic, Food Crop; D=Aquatic, Non-Food; E=Greenhouse, Food Crop; F=Greenhouse, Non-Food; G=Forestry; H=Domestic Outdoor; I=Indoor.

3/ Data must be submitted no later than 48 months for the issuance of the standard

4/ These requirements are generally waived unless it is believed there is a phototoxicity problem.

TABLE A
GENERIC DATA REQUIREMENTS FOR DCNA

Data Requirement	Composition 1/	Use Pattern 2/	Does EPA Have Data To Satisfy This Requirement? (Yes, No or Partially)	Bibliographic Citation	Must Additional Data Be Submitted Under FIFRA Section 3(c)(2)(B)? 3/
§158.155 Nontarget Insect					
NONTARGET INSECT TESTING - POLLINATORS:					
141-1 - Honey bee acute contact LD_{50}	TGAI	A,B	Yes	00036935	No
141-2 - Honey bee - toxicity of residues on foliage	TEP	--	Not Applicable	--	--
141-3 - Wild bees important in alfalfa pollination - toxicity of residues on foliage	TEP	--	Not Applicable	--	--
141-4 - Honey bee subacute feeding study	(Reserved) 4	--	--	--	--
141-5 - Field testing for pollinators	TEP	--	Not Applicable	--	--

TABLE A
GENERIC DATA REQUIREMENTS FOR DCNA

Data Requirement	Composition 1/	Use Pattern 2/	Does EPA Have Data To Satisfy This Requirement? (Yes, No or Partially)	Bibliographic Citation	Must Additional Data Be Submitted Under FIFRA Section 3(c)(2)(B)? 3/
§158.155 Nontarget Insect (continued)					
NONTARGET INSECT TESTING - AQUATIC INSECTS:					
142-1 - Acute toxicity to aquatic insects	(Reserved)5				
142-2 - Aquatic insect life-cycle study	(Reserved)5				
142-3 - Simulated or actual field testing for aquatic insects	(Reserved)5				
143-1 - NONTARGET INSECT TESTING - PREDATORS AND PARASITES thru 143-3	(Reserved)5				

1/ Composition: TGAI = Technical grade of the active ingredient; TEP = Typical end-use product.
2/ The use patterns are coded as follows: A=Terrestrial, Food Crop; B=Terrestrial, Non-Food; C=Aquatic, Food Crop: D=Aqautic, Non-Food; E=Greenhouse, Food Crop; F=Greenhouse, Non-Food; G=Forestry; H=Domestic Outdoor; I=Indoor.
3/ Data must be submitted no later than 6 months from the issuance of the standard
4/ Reserved pending development of test methodology
5/ Reserved pending decision as to whether the data requirement should be established

TABLE B
PRODUCT SPECIFIC DATA REQUIREMENTS FOR MANUFACTURING-USE PRODUCTS CONTAINING DCNA

Data Requirement	Composition 1/	Does EPA Have Data To Satisfy This Requirement? (Yes, No or Partially)	Bibliographic Citation	Must Additional Data Be Submitted Under FIFRA Section 3(c)(2)(B)? 2/6/
§158.120 Product Chemistry				
Product Identity				
61-1 - Identity of Ingredients	MP	Yes	--	Yes
61-2 - Statement of Composition	MP	Partially[6]	GS0113054	Yes
61-3 - Discussion of Formation of Ingredients	MP	No	--	Yes
Analysis and Certification of Product Ingredients:				
62-1 - Preliminary Analysis	MP	No	--	Yes
62-2 - Certification of Limits	MP	Partially[4]	GS0113052, GS0113053 & GS0113055	Yes
62-3 - Analytical Methods for Enforcement of Limits	MP	Partially[5]	GS0113057	Yes
Physical and Chemical Characteristics				
63-2 - Color	MP	Yes	GS0113054	No
63-3 - Physical State	MP	Yes	GS0113054 & GS0113052	Yes
63-4 - Odor	MP	No	--	Yes
63-7 - Density, bulk density, or specific gravity	MP	No	--	Yes

TABLE B
PRODUCT SPECIFIC DATA REQUIREMENTS FOR MANUFACTURING-USE PRODUCTS CONTAINING DCNA

Data Requirement	Composition 1/	Does EPA Have Data To Satisfy This Requirement? (Yes, No or Partially)	Bibliographic Citation	Must Additional Data Be Submitted Under FIFRA Section 3(c)(2)(B)? 2/
§158.135 Toxicology				
ACUTE TESTING				
81-1 - Oral LD_{50} - Rat	MP	Yes	00096966 & 00086879	No
81-2 - Dermal LD_{50}	MP	Yes	00086894	No
81-3 - Inhalation LC_{50} - Rat	MP	Yes	00029057	No
81-4 - Primary Eye Irritation - Rabbit	MP	Yes	00086892	No
81-5 - Primary Dermal Irritation	MP	Yes	00086892	No
81-6 - Dermal Sensitization	MP	Yes	00082721	No

1/ Composition: MP = Manufacturing-use product.
2/ Data must be submitted no later than 48 months from the issuance of the Standard

III. REQUIREMENT FOR SUBMISSION OF PRODUCT-SPECIFIC DATA

Note: This chapter applies only to manufacturing-use products, not end-use products.

A necessary first step in determining which statements must appear on your product's label is the completion and submission to EPA of product-specific data* listed on the form entitled "Product Specific Data Report" (EPA Form 8580-4, Appendix III-1) to fill "gaps" identified by EPA concerning your product. Under the authority of FIFRA Section 3(c)(2)(B), EPA has determined that you must submit these data to EPA in order to register or reregister your product(s). All of these data must be submitted not later than six months after you receive this guidance document.

"Product-Specific Data Requirements for Manufacturing-Use Products" appearing in Table B permit you to determine which product-specific data you must submit. This can be done by examining the entries in the column of those tables entitled "Must Data Be Submitted Under §3(c)(2)(B)."

*/ Product specific data pertains to data that support the formulation which is marketed; it usually includes product chemistry data and acute toxicology data.

IV. SUBMISSION OF REVISED LABELING AND PACKAGING INFORMATION

Note: This chapter applies only to manufacturing-use products, not end-use products.

The Agency requires applicants for registration or reregistration to ensure that each label (1) contains accurate, complete, and sufficient instructions and precautions, reflecting the results of data concerning the product and its ingredients, and (2) incorporates labeling format and terminology which are sufficiently standardized to avoid user confusion.

As part of your application, you will be required to submit draft labeling consistent with: applicable product-specific data; the precautionary statements and use directions; and the regulations concerning classification [40 CFR §162.11(c)], packaging [40 CFR §162.16], and labeling [40 CFR §162.10], as indicated by the following paragraphs of this chapter of the guidance document.

You will be informed later when you must submit the revised labeling set forth in this guidance package.

A. Label Contents

40 CFR §162.10 requires that certain specific labeling statements must appear at certain locations on the label. This is referred to as format labeling. Specific label items listed below are keyed to Tables D, E, and F (Appendix IV-2).

Item 1. PRODUCT NAME - The name, brand, or trademark is required to be located on the front panel, preferably centered in the upper part of the panel. The name of a product will not be accepted if it is false or misleading. [40 CFR §162.10(b)]

Item 2. COMPANY NAME AND ADDRESS - The name and address of the registrant or distributor is required on the label. The name and address should preferably be located at the bottom of the front panel or at the end of the label text. [40 CFR §162.10(c)]

Item 3. NET CONTENTS - A net content statement is required on all labels. The preferred location is the bottom of the front panel immediately above the company name and address, or at the end of the label text. The net contents must be stated in terms of weight, expressed as avoirdupois pounds

and ounces, and stated in terms of the largest suitable unit, i.e., "1 pound 10 ounces" rather than "26 ounces." In addition to the required units specified, net contents may be expressed in metric units. [40 CFR §162.10(d)]

Item 4. EPA REGISTRATION NUMBER - The registration number assigned to the pesticide product must appear on the label, preceded by the phrase "EPA Registration No.," or "EPA Reg. No." The registration number must be set in type of a size and style similar to other print on that part of the label on which it appears and must run parallel to it. The registration number and the required identifying phrase must not appear in such a manner as to suggest or imply recommendation or endorsement of the product by the Agency. [40 CFR §162.10(e)]

Item 5. EPA ESTABLISHMENT NUMBER - The EPA establishment number, preceded by the phrase "EPA Est." is the final establishment at which the product was produced, and may appear in any suitable location on the label or immediate container. It must also appear on the wrapper or outside container of the package if the EPA establishment registration number on the immediate container cannot be clearly read through such wrapper or container. [40 CFR §162.10(f)]

Item 6. INGREDIENT STATEMENT - An ingredient statement is required on the front panel and must contain the name and percentage by weight of each active ingredient and the total percentage by weight of all inert ingredients. The preferred location is immediately below the product name. The ingredient statement must run parallel with, and be clearly distinguished from, other text on the panel. It must not be placed in the body of other text. [40 CFR 162.10(g)]

Item 6A. POUNDS PER GALLON STATEMENT - For liquid agricultural formulations, the pounds per gallon of active ingredient must be indicated on the label.

Item 7. FRONT LABEL PRECAUTIONARY STATEMENTS - All labels are required to have precautionary statements grouped together on the front panel, preferably within a block outline. The table below shows the minimum type size requirements on various size labels, as set forth in the Regulations.

Size of Label on Front Panel in Square Inches	Signal Word as Required Minimum Type Size All Capitals	"Keep Out of Reach of Children" as Required
5 and under	6 point	6 point
above 5 to 10	10 point	6 point
above 10 to 15	12 point	8 point
above 15 to 30	14 point	10 point
over 30	18 point	12 point

Item 7A. CHILD HAZARD WARNING STATEMENT - All labels are required to have the statement "Keep Out of Reach of Children" located on the front panel above the signal word except where contact with children during distribution or use is unlikely. [40 CFR §162.10(h)(1)(ii)]

Item 7B. SIGNAL WORD - The signal word (Caution, Warning, or Danger) is required on the front panel immediately below the child hazard warning statement. [40 CFR §162.10 (h)(1)(i)]

Item 7C. SKULL & CROSSBONES AND WORD "POISON" - On products assigned a toxicity Category I on the basis of oral, inhalation, or dermal toxicity, the word "Poison" shall appear on the label in red on a background of distinctly contrasting color and the skull and crossbones shall appear in immediate proximity to the word poison. [40 CFR §162.10(h)(1)(i)]

Item 7D. STATEMENT OF PRACTICAL TREATMENT - A statement of practical treatment (first aid or other) shall appear on the label of pesticide products in toxicity Categories I, II, and III. [40 CFR §162.10(h)(1)(iii)]

Item 7E. REFERRAL STATEMENT - The statement "See Side (or Back) Panel for Additional Precautionary Statements" is required on the front panel for all products, unless all required precautionary statements appear on the front panel. [40 CFR §162.10(h)(1)(iii)]

Item 8. SIDE/BACK PANEL PRECAUTIONARY LABELING - The precautionary statements as listed below must appear together on the label under the heading "PRECAUTIONARY STATEMENTS." The preferred location is at the top of the side or back panel preceding the directions for use, and it is preferred that these statements be surrounded by a block outline. Each of the three hazard warning statements must be headed by the appropriate hazard title. [40 CFR §162.10 (h)(2)]

Item 8A. HAZARD TO HUMANS AND DOMESTIC ANIMALS - Where a hazard exists to humans or domestic animals, precautionary statements are required indicating the particular hazard, the route(s) of exposure and the precautions taken to avoid accident, injury or damage. [40 CFR §162.10 (h)(2)(i)]

Item 8B. ENVIRONMENTAL HAZARD - Where a hazard exists to non-target organisms excluding humans and domestic animals, precautionary statements are required stating the nature of the hazard and the appropriate precautions to avoid potential accident, injury, or damage. [40 CFR §162.10(h)(2)(ii)]

Item 8C. PHYSICAL OR CHEMICAL HAZARD

1. Flammability statement. Precautionary statements relating to flammability of a product are required to appear on the label if it meets the criteria in Appendix IV-3. The requirement is based on the results of the flashpoint determinations and flame extension tests required to be submitted for all products. These statements are to be located in the side/back panel precautionary statements section, preceded by the heading "Physical/Chemical Hazards." Note that no signal word is used in conjunction with the flammability statements.

2. Criteria for declaration of non-flammability. The following criteria will be used to determine if a product is non-flammable:

   a. A "non-flammable gas" is a gas (or mixture of gases) that will not ignite when a lighted match is placed against the open cylinder valve.

   b. A "non-flammable liquid" is one having a flashpoint greater than 350°F (177°C) as determined by the method specified in 40 CFR §163.61-8(c)(13)(ii) of Subpart D.

   c. A "non-flammable aerosol" is one which meets the following criteria:

      i. The flame extension is zero inches, using the method specified in 40 CFR §163.61-8(c)(13)(ii);

      ii. There is no flash back; and

      iii. The flashpoint of the non-volatile liquid component is greater than 350°F (177°C), determined by the method specified in 40 CFR §163.61-8(c)(13)(i).

3. Declaration of non-flammability. Products which meet the criteria for non-flammability specified above may bear the notation "non-flammable" or "nonflammable (gas, liquid, etc.)" on the label.

   It may appear as a substatement to the ingredients statement, or on a back or side panel, but shall not be highlighted or emphasized (as with an inordinately large type size) in any way that may detract from precaution.

4. Other physical/chemical hazard statements. When chemistry data submitted in accordance with 40 CFR §163.61-10(c) demonstrate hazards of a physical or chemical nature other than flammability, appropriate statements of hazard will be prescribed. Such statements may address hazards of explosivity, oxidizing or reducing capability, or mixing with other substances to produce toxic fumes.

Item 9. MISUSE STATEMENT - The following statement is required on your label: "It is a violation of Federal law to use this product in a manner inconsistent with its labeling." [40 CFR §162.10(1)(2)(ii)]

Item 10A. STORAGE AND DISPOSAL BLOCK - All labels are required to bear storage and disposal statements. These statements are developed for specific containers, sizes, and chemical content. Make certain that the statement you use pertains specifically to your product. These instructions must be grouped and appear under the heading "Storage and Disposal" in the directions for use. This heading must be set in the same type sizes as required for the child hazard warning. Refer to Appendix IV-5 for the latest specific storage and disposal product label statements.

Item 10B. DIRECTIONS FOR USE - Directions for use must be stated in terms which can be easily read and understood by the average person likely to use or to supervise the use of the pesticide. When followed, directions must be adequate to protect the public from fraud and from personal injury and to prevent unreasonable adverse effects on the environment. [40 CFR §162.10]

B. Collateral Information

Bulletins, leaflets, circulars, brochures, data sheets, flyers, and other graphic printed matter which is referred to on the label or which is to accompany the product are termed collateral labeling. Such labeling may not bear claims or representations that differ in substance from those accepted in connection with registration of the product. It should be made part of the response to this notice and submitted for review.

V. INSTRUCTIONS FOR SUBMISSION

All applications prepared in response to this Notice should be addressed as follows:

Mr. Henry M. Jacoby (PM-21)
Registration Division (TS-767)
Office of Pesticide Programs
Environmental Protection Agency
Washington, D.C. 20460
Telephone: 703/557-1900

For each product for which continued registration is desired:

1. Within 90 days from receipt of this document, you must submit the "FIFRA Section 3(c)(2)(B) Summary Sheet," EPA Form 8580-1. Refer to Appendix II-2 with appropriate attachments.

2. Within 6 months from receipt of this document registrants must submit:

   a. Confidential Statement of Formula, EPA Form 8570-4.

   b. Product Specific Data Report, EPA Form 8580-4 (Appendix III-1).

   c. Two copies of any required product-specific data.

3. Within the time set forth in Table A, all generic data must be submitted by the affected registrant(s).

Note: If for any reason any required test is delayed or aborted so that meeting the agreed submission time will be delayed, notify the Product Manager listed above.

You will be informed at a later date when you must submit your Application for Amended Pesticide Registration (EPA Form 8570-1) and the revised labeling set forth in this guidance package.

Appendix II-1

Guide to Use of This Bibliography

1. CONTENT OF BIBLIOGRAPHY. This bibliography contains citations of all studies considered relevant by EPA in arriving at the positions and conclusions stated elsewhere in the Standard. Primary sources for studies in this bibliography have been the body of data submitted to EPA and its predecessor agencies in support of past regulatory decisions. Selections from other sources including the published literature, in those instances where they have been considered, will be included.

2. UNITS OF ENTRY. The unit of entry in this bibliography is called a "study." In the case of published materials, this corresponds closely to an article. In the case of unpublished materials submitted to the Agency, the Agency has sought to identify documents at a level parallel to the published article from within the typically larger volumes in which they were submitted. The resulting "studies" generally have a distinct title (or at least a single subject), can stand alone for purposes of review, and can be described with a conventional bibliographic citation. The Agency has attempted also to unite basic documents and commentaries upon them, treating them as a single study.

3. IDENTIFICATION OF ENTRIES. The entries in this bibliography are sorted numerically by "Master Record Identifier," or MRID, number. This number is unique to the citation, and should be used at any time specific reference is required. It is not related to the six-digit "Accession Number" which has been used to identify volumes of submitted studies; see paragraph 4(d)(4) below for a further explanation. In a few cases, entries added to the bibliography late in the review may be preceded by a nine-character temporary identifier. These entries are listed after all MRID entries. This temporary identifier number is also to be used whenever specific reference is needed.

4. FORM OF ENTRY. In addition to the Master Record Identifier (MRID), each entry consists of a citation containing standard elements followed, in the case of material submitted to EPA, by a description of the earliest known submission. Bibliographic conventions used reflect the standards of the American National Standards Institute (ANSI), expanded to provide for certain special needs.

   a. Author. Whenever the Agency could confidently identify one, the Agency has chosen to show a personal author. When no individual was identified, the Agency has shown an identifiable laboratory or testing facility

as author. As a last resort, the Agency has shown the first submitter as author.

b. Document Date. When the date appears as four digits with no question marks, the Agency took it directly from the document. When a four-digit date is followed by a question mark, the bibliographer deduced the date from evidence in the document. When the date appears as (19??), the Agency was unable to determine or estimate the date of the document.

c. Title. In some cases, it has been necessary for Agency bibliographers to create or enhance a document title. Any such editorial insertions are contained between square brackets.

d. Trailing Parentheses. For studies submitted to the Agency in the past, the trailing parentheses include (in addition to any self-explanatory text) the following elements describing the earliest known submission:

(1) Submission Date. The date of the earliest known submission appears immediately following the word "received."

(2) Administrative Number. The next element, immediately following the word "under," is the registration number, experimental use permit number, petition number, or other administrative number associated with the earliest known submission.

(3) Submitter. The third element is the submitter, following the phrase "submitted by." When authorship is defaulted to the submitter, this element is omitted.

(4) Volume Identification (Accession Numbers). The final element in the trailing parentheses identifies the EPA accession number of the volume in which the original submission of the study appears. The six-digit accession number follows the symbol "CDL," standing for "Company Data followed by an alphabetic suffix which shows the relative position of the study within the volume. For example, within accession number 123456, the first study would be 123456-A; the second, 123456-B; the 26th, 123456-Z; and the 27th, 123456-AA. Library." This accession number is in turn followed by an alphabetic suffix which shows the relative position of the study within the volume. For example, within accession umber 123456, the first study would be 123456-A; the second, 123456-B; the 26th, 123456-Z; and the 27th, 123456-AA.

Registration Standard Bibliography for DCNA. Citations are considered to be part of the data base supporting registration under the standard.

00026810 Kakuk, T.J.; Weddon, T.W.; Thomas, R.W., et al. (1979) Reevaluation of Potential Hepatic Effects of Botran in Beagle Dogs--Supplemental Report: Technical Report No. 001-9610-79-005. (Unpublished study received Dec 19, 1979 under 1023-51; prepared in cooperation with Woodward Research Corp., submitted by Upjohn Co., Kalamazoo, Mich.; CDL:241511-A)

00029057 Horn, H.J. (1961) U-2069: Acute Inhalation Toxicity. (Unpublished study including letters dated Aug. 8, 1961 from E.S. Feenstra to W. Klomparens and Aug 3, 1961 from H.J. Horn to E.S. Feenstra, received Jun 1, 1963 under PP0375; prepared by Woodard Research Corp., submitted by Upjohn Co., Kalamazoo, Mich.; CDL:090404-AA)

00036935 Atkins, E.L.; Greywood, E.A.; Macdonald, R.L. (1975) Toxicity of Pesticides and Other Agricultural Chemicals to Honey Bees: Laboratory Studies. By University of California, Dept. of Entomology. UC, Cooperative Extension. (Leaflet 2287; published study.)

00080869 Wazeter, F.X.; Buller, R.H.; Geil, R.G. (1966) Somers Test in the Albino Rabbit: 100-037. (Unpublished study received Mar 31, 1966 under 6F0474; prepared by International Research and Development Corp., submitted by Upjohn Co., Kalamazoo, Mich.; CDL: 090529-H)

00082269 Lobdell, B.J.; Johnston, C.D.; Cronin, M.T.I. (1965) U-2069: Effect on Reproductive Capacity through Three Generations in the Rat. Final rept. (Unpublished study received Mar 16, 1965 under 5F0434; prepared by Woodard Research Corp., submitted by Upjohn Co., Kalamazoo, Mich.; CDL:098141-A)

00082672 Eberts, F.S.; Meeks, R.C.; Vliek, R.W. (1964) Letter sent to A.A. Forist dated Aug 26, 1964: Excretion of Botran-C14 (2,6dichloro-4-nitroaniline-U-C14) by Man. (Unpublished study received Mar 29, 1965 under 5F0434; submitted by Upjohn Co., Kalamazoo, Mich.; CDL:090471-Y)

00082717 Upjohn, H.L. (1962) Botran Clinical Study. (Unpublished study received on unknown date under 5F0434; submitted by Upjohn Co., Kalamazoo, Mich.; CDL:097519-R)

00082719 Evans, J.S.; Mengel, G.D.; Bostwick, L. (1963) Letter sent to W.M. Klomparens dated Dec 23, 1963: Botran (U-2069): Effect of oral administration final report, four month's study. (*Unpublished* study received 1964 under 5F0434; submitted by Upjohn Co., Kalamazoo, Mich.; CDL:097520-B)

00082721 Johnston, R.L.; Schwikert, R.S. (1963) Letter sent to E.S. Feenstra dated Feb 21, 1963: U-2069: 2,6-dichloro-4-nitro aniline, or Botran: Skin sensitization in guinea pigs: Ref. 5567-64-RLJ-106B. (Unpublished study received 1964 under 5F0434; submitted by Upjohn Co., Kalamazoo, Mich.; CDL:097520-D)

00085718 Piccirillo, V.J.; Orlando, D.A. (1980) Single Dose Oral Toxicity Study with Two Component'Heliothis virescens'Sex Pheromone in Bobwhite Quail: Borriston Laboratories Project No. 221-B. (Unpublished study received Aug 7, 1981 under 36638-10; prepared by Borriston Laboratories, Inc., submitted by Conrel, an Albany International Co., Needham Heights, Mass.; CDL:245801-N)

00086879 Wesley, M.M.; Weddon, T.E.; Kakuk, T.J. (1980) Toxicologic Profile of Botran (2,6-Dichloro-4-nitroaniline) in Animals and Man: Technical Report No. 218-9610-80-005. (Unpublished study received Nov 17, 1981 under 1023-36; submitted by Upjohn Co., Kalamazoo, Mich.; CDL:070501-C)

00086892 Raczniak, T.J.; Wood, D.R. (1980) Primary Eye Irritation Evaluation in New Zealand White Rabbits with Botran Technical (U-2069): Technical Report No. 218-9610-80-001. (Unpublished study received Nov 17, 1981 under 1023-36; submitted by Upjohn Co., Kalamazoo, Mich.; CDL:070501-S)

00086894 Raczniak, T.J.; Wood, D.R. (1980) Acute Dermal Toxicity Screen in New Zealand White Rabbits with Botran Technical (U-2069): Technical Report No. 218-9610-80-003. (Unpublished study received Nov 17, 1981 under 1023-36; submitted by Upjohn Co., Kalamazoo, Mich.; CDL:070501-U)

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GS0113098 Upjohn Co. 1982. Section D of PP 2F2607.

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GS0113100 Upjohn Co. 1965. Analysis of dipped nectarine for DCNA residue. Submitted under PP 7G0602.

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GS0113102 Upjohn Co. 1970. Report Nos. 912-9760-29, -30, -31, -52, -53, -54, -55, and -56. Submitted under PP 0F0973.

GS0113103 Upjohn Co. 1962. 2,6-Dichloronitroaniline on sprayed Peach in California. Submitted under PP T375.

GS0113104 Boyack, G.A., and D.H. Boot. 1962. Analysis of peaches and apricots dipped in suspensions of 2,6-Dichloronitroaniline (DCNA). Submitted by the Upjohn Co. under PP T375.

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GS0113101 Upjohn Co. 1967. Report Nos 211-9760-14, -15, and -16. Submitted under PP 7G0602.

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GS0113103 Upjohn Co. 1962. 2,6-Dichloronitroaniline on sprayed Peach in California. Submitted under PP T375.

GS0113104 Boyack, G.A., and D.H. Boot. 1962. Analysis of peaches and apricots dipped in suspensions of 2,6-Dichloronitroaniline (DCNA). Submitted by the Upjohn Co. under PP T375.

OMB Approval No. 2000-0468 (Expires 12-31-83)

FIFRA SECTION 3(C)(2)(B) SUMMARY SHEET	EPA REGISTRATION NO.
PRODUCT NAME	
APPLICANT'S NAME	DATE GUIDANCE DOCUMENT ISSUED

With respect to the requirement to submit "generic" data imposed by the FIFRA section 3(C)(2)(B) notice contained in the referenced Guidance Document, I am responding in the following manner:

☐ 1. I will submit data in a timely manner to satisfy the following requirements. If the test procedures I will use deviate from (or are not specified in) the Registration Guidelines or the Protocols contained in the Reports of Expert Groups to the Chemicals Group, OECD Chemicals Testing Programme, I enclose the protocols that I will use:

☐ 2. I have entered into an agreement with one or more other registrants under FIFRA section 3(C)(2)(B)(ii) to satisfy the following data requirements. The tests, and any required protocols, will be submitted to EPA by:

NAME OF OTHER REGISTRANT

☐ 3. I enclose a completed "Certification of Attempt to Enter Into an Agreement with Other Registrants for Development of Data" with respect to the following data requirements:

☐ 4. I request that you amend my registration by deleting the following uses (this option is not available to applicants for new products):

☐ 5. I request voluntary cancellation of the registration of this product. (This option is not available to applicants for new products.)

REGISTRANT'S AUTHORIZED REPRESENTATIVE	SIGNATURE	DATE

EPA Form 8580-1 (10-82)

OMB Approval No. 2000-0468 (Expires: 12-31-83)

CERTIFICATION OF ATTEMPT TO ENTER INTO AN AGREEMENT WITH OTHER REGISTRANTS FOR DEVELOPMENT OF DATA

(To qualify, certify ALL four items)

1. I am duly authorized to represent the following firm(s) who are subject to the requirements of a Notice under FIFRA Section 3(c)(2)(B) contained in a Guidance Document to submit data concerning the active ingredient:

GUIDANCE DOCUMENT DATE

ACTIVE INGREDIENT

NAME OF FIRM	EPA COMPANY NUMBER

(This firm or group of firms is referred to below as "my firm".)

2. My firm is willing to develop and submit the data as required by that Notice, if necessary. However, my firm would prefer to enter into an agreement with one or more other registrants to develop jointly, or to share in the cost of developing, the following required items or data:

3. My firm has offered in writing to enter into such an agreement. Copies of the offers are attached. That offer was irrevocable and included an offer to be bound by an arbitration decision under FIFRA Section 3(c)(2)(B)(iii) if final agreement on all terms could not be reached otherwise. This offer was made to the following firm(s) on the following date(s):

NAME OF FIRM	DATE OF OFFER

However, none of those firm(s) accepted my offer.

4. My firm requests that EPA not suspend the registration(s) of my firm's product(s), if any of the firms named in paragraph (3) above have agreed to submit the data listed in paragraph (2) above in accordance with the Notice. I understand EPA will promptly inform me whether my firm must submit data to avoid suspension of its registration(s) under FIFRA Section 3(c)(2)(B). (This statement does not apply to applicants for new products.) I give EPA permission to disclose this statement upon request.

TYPED NAME	SIGNATURE	DATE

EPA Form 8580-6 (10-82)

Appendix IV-1

PRODUCT SPECIFIC DATA REPORT

EPA Registration No._____ Guidance Document for_____

Date_____

Registration Guideline No.	Name of Test	Test not required for my product listed above (check below)	I am complying with data requirements by: Citing MRID#	Submitting Data (Attached)	(For EPA Use Only) Accession Numbers Assigned
§158.20 PRODUCT CHEMISTRY					
61-1	Identity of ingredients				
61-2	Statement of composition				
61-3	Discussion of formation of ingredients				
62-1	Preliminary analysis				
62-2	Certification of limits				
62-3	Analytical methods for enforcement limits				
63-2	Color				
63-3	Physical state				
63-4	Odor				
63-5	Melting point				
63-6	Boiling point				
63-7	Density, bulk-density, or specific gravity				
63-8	Solubility				
63-9	Vapor pressure				
63-10	Dissociation constant				
63-11	Octanol/water partition coefficient				
63-12	pH				

Registration Guideline No.	Name of Test	Test not required for my product listed above (check below)	I am complying with data requirements by: Citing MRID#	Submitting Data (Attached)	(For EPA Use Only) Accession Numbers Assigned
63-13	Stability				
63-14	Oxidizing/reducing reaction				
63-15	Flammability				
63-16	Explodability				
63-17	Storage stability				
63-18	Viscosity				
63-19	Miscibility				
63-20	Corrosion characteristics				
63-21	Dielectric breakdown voltage				
§158.135 TOXICOLOGY					
81-1	Acute oral LD-50, rat				
81-2	Acute dermal LD-50				
81-3	Acute inhalation, LC-50 rat				
81-4	Primary eye irritation, rabbit				
81-5	Primary dermal irritation				
81-6	Dermal sensitization				

LABELING REQUIREMENTS OF THE FIFRA, AS AMENDED

ITEM	LABEL ELEMENT	APPLICABILITY OF REQUIREMENT	PLACEMENT ON LABEL		COMMENTS
			REQUIRED	PREFERRED	
1	Product name	All products	Front panel	Center front panel	
2	Company name and address	All products	None	Bottom front panel or end of label text	If registrant is not the producer, must be qualified by "Packed for . . .," "Distributed by. . .," etc.
3	Net contents	All products	None	Bottom front panel or end of label text	May be in metric units in addition to U.S. units
4	EPA Est. No.	All products	None	Front panel	Must be in similar type size and run parallel to other type.
5	EPA Reg. No.	All products	None	Front panel, immediately before or following Reg. No.	May appear on the container instead of the label.
6A	Ingredients statement	All products	Front panel	Immediately following product name	Text must run parallel with other text on the panel.
6B	Pounds/gallon statement	Liquid products where dosage given as lbs. ai/unit area	Front panel	Directly below the main ingredients statement	
7	Front panel precautionary statements	All products	Front panel		All front panel precautionary statements must be grouped together, preferably blocked.
7A	Keep Out of Reach of Children (Child hazard warning)	All products	Front panel	Above signal word	Note type size requirements.
7B	Signal word	All products	Front panel	Immediately below child hazard warning	Note type size requirements.

ITEM	LABEL ELEMENT	APPLICABILITY OF REQUIREMENT	PLACEMENT ON LABEL		COMMENTS
			REQUIRED	PREFERRED	
7C	Skull & cross-bones and word POISON (in red)	All products which are Category I based on oral, dermal, or inhalation toxicity	Front panel	Both in close proximity to signal word	
7D	Statement of practical treatment	All products in Categories I, II, and III	Category I: Front panel unless referral statement is used. Others: Grouped with side panel precautionary statements.	Front panel for all.	
7E	Referral statement	All products where precautionary labeling appears on other than front panel.	Front panel		
8	Side/back panel precautionary statements	All products	None	Top or side of back panel preceding directions for use	Must be grouped under the headings in 8A, 8B, and 8C; preferably blocked.
8A	Hazards to humans and domestic animals	All products in Categories I, II, and III	None	Same as above	Must be preceded by appropriate signal word.
8B	Environmental hazards	All products	None	Same as above	Environmental hazards include bee caution where applicable.

ITEM	LABEL ELEMENT	APPLICABILITY OF REQUIREMENT	PLACEMENT ON LABEL		COMMENTS
			REQUIRED	PREFERRED	
8C	Physical or chemical hazards	All pressurized products, others with flash points under 150°F	None	Same as above	
9A	Restricted block	All restricted products	Top center of front panel	Preferably blocked	Includes a statement of the terms of restriction. The words "RESTRICTED USE PESTICIDE" must be same type size as signal word.
9C	Misuse statement	All products	Immediately following statement of classification or ahead of directions for use		
10A	Re-entry statement	All cholinesterase inhibitors	In the directions for use	Immediately after misuse statement	
10C	Storage and disposal block	All products	In the directions for use	Immediately before specific directions for use or at the end of directions for use	Must be set apart and clearly distinguishable from from other directions for use.
10D U.S.	Directions for use	All products	None	None	May be in metric as well as U.S. units

PHYSICAL-CHEMICAL HAZARDS

Criteria	Required Label Statement
I. Pressurized Containers	
A. Flashpoint at or below 20°F; or if there is a flashback at any valve opening.	Extremely flammable. Contents under pressure. Keep away from fire, sparks, and heated surfaces. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting.
B. Flashpoint above 20°F and not over 80°F; or if the flame extension is more than 18 inches long at a distance of 6 inches from the valve opening.	Flammable. Contents under pressure. Keep away from heat, sparks, and flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting.
C. ALL OTHER PRESSURIZED CONTAINERS	Contents under pressure. Do not use or store near heat or open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting.
II. Non-Pressurized Containers	
A. Flashpoint at or below 20°F.	Extremely flammable. Keep away from fire, sparks, and heated surfaces.
B. Flashpoint above 20°F and over 80°F.	Flammable. Keep away from heat and open flame.
C. Flashpoint over 80°F and not over 150°F.	Do not use or store near heat and open flame.
D. Flashpoint above 150°F.	None required.

STORAGE AND DISPOSAL INSTRUCTIONS FOR PESTICIDES

All products are required to bear specific label instructions about storage and disposal. Storage and disposal instructions must be grouped together in the directions for use portion of the label under the heading STORAGE AND DISPOSAL. Products intended solely for domestic use need not include the heading "STORAGE AND DISPOSAL." The STORAGE AND DISPOSAL heading must appear in the minimum type size listed below:

Size of label front panel in square inches	Required type size for the heading STORAGE AND DISPOSAL (all capitals)
10 and under	.6 point
Above 10 to 15	.8 point
Above 15 to 30	10 point
Over 30	12 point

Storage and disposal instructions must be set apart and clearly distinguishable from other directions for use. Blocking storage and disposal statements with a solid line is suggested as a means of increasing their prominence.

A. Storage Instructions:

All product labels are required to have appropriate storage instructions. Specific storage instructions are not prescribed. Each registrant must develop his own storage instructions, considering, when applicable, the following factors:

1. Conditions of storage that might alter the composition or usefulness of the pesticide. Examples could be temperature extremes, excessive moisture or humidity, heat, sunlight, friction, or contaminating substances or media.

2. Physical requirements of storage which might adversely affect the container of the product and its ability to continue to function properly. Requirements might include positioning of the container in storage, storage or damage due to stacking, penetration of moisture, and ability to withstand shock or friction.

3. Specifications for handling the pesticide container, including movement of container within the storage area, proper opening and closing procedures (particularly for opened containers), and measures to minimize exposure while opening or closing container.

4. Instructions on what to do if the container is damaged in any way, or if the pesticide is leaking or has been spilled, and precautions to minimize exposure if damage occurs.

5. General precautions concerning locked storage, storage in original container only, and separation of pesticides during storage to prevent cross-contamination of other pesticides, fertilizer, food, and feed.

6. General storage instructions for household products should emphasize storage in original container and placement in locked storage areas.

B. Pesticide Disposal Instructions:

The label of all products, except those intended solely for domestic use, must bear explicit instructions about pesticide disposal. The statements listed below contain the exact wording that must appear on the label of these products:

1. The labels of all products, except domestic use, must contain the statement, "Do not contaminate water, food, or feed by storage or disposal."

2. Except those products intended solely for domestic use, the labels of all products that contain active ingredients appearing on the "Acutely Hazardous" Commercial Pesticide Products List (RCRA "E" List) at the end of this appendix or are assigned to Toxicity Category I on the basis of oral or dermal toxicity, skin or eye irritation potential, or Toxicity Category I or II on the basis of acute inhalation toxicity must bear the following pesticide disposal statement:

   "Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance."

   The labels of all products, except those intended for domestic use, containing active or inert ingredients that appear on the "Toxic" Commercial Pesticide Products List (RCRA "F" List) at the end of this appendix or presently meet any of the criteria in Subpart C, 40 CFR 261 for a hazardous waste must bear the following pesticide disposal statement:

"Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance."

Labels for all other products, except those intended for domestic use, must bear the following pesticide disposal statement:

"Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility."

3. Products intended for domestic use only must bear the following disposal statement: "Securely wrap original container in several layers of newspaper and discard in trash."

C. Container Disposal Instructions

The label of each product must bear container disposal instructions appropriate to the type of container.

1. All products intended for domestic use must bear one of the following container disposal statements:

Container Type	Statement
Non-aerosol products (bottles, cans, jars)	Do not reuse container (bottle, can, jar). Rinse thoroughly before discarding in trash.
Non-aerosol products (bags)	Do not reuse bag. Discard bag in trash.
Aerosol products	Replace cap and discard containers in trash. Do not incinerate or puncture.

2. The labels for all other products must bear container disposal instructions, based on container type, listed below:

Container Type	Statement
Metal containers (non-aerosol)	Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.
Plastic containers	Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.
Glass containers	Triple rinse (or equivalent). Then dispose of in a sanitary landfill or by other approved state and local procedures.

Container Type	Statement
Fiber drums with liners	Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by state and local authorities. If drum is contaminated and cannot be reused[1], dispose of in the same manner.
Paper and plastic bags	Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.
Compressed gas cylinders	Return empty cylinder for reuse (or similar wording).

[1]Manufacturer may replace this phrase with one indicating whether and how fiber drum may be reused.

2. The labels for all other products must bear container disposal instructions, based on container type, listed on the first page of this Appendix.

Pesticides that are hazardous wastes under 40 CFR 261.33(e) and (f) when discarded.

"Acutely Hazardous" Commercial Pesticides (RCRA "E" List)
Active Ingredients, (no inerts):

Acrolein
Aldicarb
Aldrin
Allyl alcohol
Aluminum phosphide
4-Aminopyridine
Arsenic acid
Arsenic pentoxide
Arsenic trioxide
Calcium cyanide
Carbon disulfide
p-Chloroaniline
Cyanides (soluble cyanide salts, not specified elsewere)
Cyanogen chloride
2-Cyclohexyl-4,6-dinitrophenol
Dieldrin
0,0-Diethyl S-[2-ethylthio)ethyl] phosphorodithioate
(disulfoton, Di-Syston)
0,0-Diethyl 0-pyrazinyl phosphorothioate (Zinophos)
Dimethoate
0,0-Dimethyl 0-p-nitrophenyl phosphorothioate (methyl parathion)
4,6-Dinitro-o-cresol and salts
4,6-Dinitro-o-cyclohexylphenol
2,4 Dinitrophenol
Dinoseb
Endosulfan
Endothall
Endrin
Famphur
Fluoroacetamide
Heptachlor
Hexanethyl tetraphosphate
Hydrocyanic acid
Hydrogen cyanide
Methomyl
alpha-Naphthylthiourea (ANTU)
Nicotine and salts
Octamethylpyrophosphoramide (OMPA, schradan)
Parathion

"Acutely Hazardous" Commercial Pesticides (RCRA "E" List)
Active Ingredients continued:

Phenylmercuric acetate (PMA)
Phorate
Potassium cyanide
Propargyl alcohol
Sodium azide
Sodium cyanide
Sodium fluoroacetate
Strychnine and salts
0,0,0,0-Tetraethyl dithiopyrophosphate (sulfotepp)
Tetraethyl pyrophosphate
Thallium sulfate
Thiofanox
Toxaphene
Warfarin
Zinc phosphide

There are currently no inert ingredients for commercial pesticides on the "Acutely Hazardous" List (RCRA "E" List).

"Toxic" Commercial Pesticide Products (RCRA "F" List)
Active Ingredients:

Acetone
Acrylonitrile
Amitrole
Benzene
Bis(2-ethylhexyl)pthalate
Cacodylic acid
Carbon tetrachloride
Chloral (hydrate)
Chlordane (technical)
Chlorobenzene
4-Chloro-m-cresol
Chloroform
o-Chlorophenol
4-Chloro-o-toluidine hydrochloride
Creosote
Cresylic acid
Cyclohexane
Decachlorooctahydro-1,3,4-metheno-2H-cyclobuta[c,d]-pentalen-2-one
(kepone, chlordecone)
1,2-Dibromo-3-chloropropane (DBCP)
Dibutyl phthalate
S-3,3-(Dichloroallyl diisopropylthiocarbamate (diallate, Avadex)
o-Dichlorobenzene
p-Dichlorobenzene
Dichlorodifluoromethane (Freon 12®)
3,5-Dichloro-N-(1,1-dimethyl-2-propynyl) benzamide (pronamide,Kerb)
Dichloro diphenyl dichloroethane (DDD)
Dichloro diphenyl trichloroethane (DDT)
Dichlorethyl ether
2,4-Dichlorophenoxyacetic, esters and salts (2,4-D)
1,2-Dichloropropane
1,3-Dichloropropane (Telone)
Dimethyl phthalate
Ethyl acetate
Ethyl 4,4'-dichlorobenzilate (chlorobenzilate)
Ethylene dibromide (EDB)
Ethylene dichloride
Ethylene oxide
Formaldehyde
Furfural
Hexachlorobenzene
Hexachlorocyclopentadiene
Hexachloroethane
Hydrofluoric acid

"Toxic" Commercial Pesticide Products (RCRA "F" List)
Active Ingredients:

Isobutyl alcohol
Lead acetate
Lindane
Maleic hydrazide
Mercury
Methyl alcohol
Methyl bromide
Methyl chloride
2,2'-Methylenebis (3,4,6-trichlorophenol) (hexachlorophene)
Methylene chloride
Methyl ethyl ketone
4-Methyl-2-pentanone (methyl isobutyl ketone)
Naphthalene
Nitrobenzene
p-Nitrophenol
Pentachloroethane
Pentachloronitrobenzene (PCNB)
Pentaclorophenol
Phenol
Phosphorodithioic acid, 0,0-diethyl, methyl ester
Propylene dichloride
Pyridine
Resorcinol
Safrole
Selenium disulfide
Silvex
1,2,4,5-Tetrachlorobenzene
1,1,2,2-Tetrachloroethane
Tetrachloroethylene
2,3,4,6-Tetrachlorophenol
Thiram
Toluene
1,1,1-Trichloroethane
Trichloroethylene
Trichloromonofluoromethane (Freon 11®)
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4,5-Trichlorophenoxyacetic acid (2,4,5-T)
Xylene

"Toxic" Commercial Pesticide Products (RCRA "F" List)
Inert Ingredients:

Acetone
Acetonitrile
Acetophenone
Acrylic acid
Aniline
Benzene
Chlorobenzene
Chloroform
Cyclohexane
Cyclohexanone
Dichlorodifluoromethane (Freon 12®)
Diethyl phthalate
Dimethylamine
Dimethyl phthalate
1,4-Dioxane
Ethylene oxide
Formaldehyde
Formic acid
Isobutyl alcohol
Meleic anhydride
Methyl alcohol (methanol)
Methyl ethyl ketone
Methyl methacrylate
Naphthalene
Saccharin and salts
Thiourea
Toluene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichlorofluoromethane (Freon 11®)
Vinyl chloride
Xylene

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

CERTIFIED MAIL

SUBJECT: Initiation of Reregistration Process for Pesticide Products Containing 2,6-Dichloro-4-Nitroaniline (DCNA) as the Single Active Ingredient

Dear Registrant:

In accordance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, EPA's Office of Pesticide Programs has begun the reregistration process for pesticide products containing the subject ingredient. Significant changes to the statute were made in 1972, 1975, and 1978; thus, current requirements may be substantially different from those in effect at the time your product(s) were registered. The first phase of reregistration requires that you (1) make a commitment to the Agency regarding data development and (2) subsequently submit revised product labeling and associated information.

This mailing contains the Guidance Document for preparation of submissions, as well as a listing of your affected product(s) (Attachment A), and a separate list of registrants with products subject to this standard and which contain this active ingredient (Attachment B). The latter list is for the purpose of cooperative data development.

The Guidance Document sets out the Agency's evaluation of all available data pertaining to the subject chemical and its registered uses, and its rationale for the regulatory actions being taken at this time. Additionally, the Guidance Document contains instructions describing certain of the

steps you must take to maintain registration for your product(s). Products not brought into compliance with the Guidance Document as supplemented by subsequent information from EPA about compliance with certain data support requirements will be subject to suspension and/or cancellation.

Specifically, the enclosed Guidance Document does the following:

1. Introduces the purpose of this document.

2. Explains the Agency's policy regarding data submission and identifies, in table format, the data that must be submitted to complete the Agency's evaluation of each product. In addition, a bibliography identifying the data which is considered part of the data base supporting the registration standard is included.

3. Sets out time-frames for submission of required data.

4. Explains how to revise labeling for maufacturing use products. (As the Guidance Document explains, labeling is not required at this time.)

5. Provides submission instructions.

Because of the variety and complexity of the requirements, and the short statutory time-frames available for certain actions, it is essential that you understand the specific requirements and procedures in order that you may respond in a correct and timely manner. Since a part of these requirements is under Section 3(c)(2)(B) of FIFRA, your first response may be required within 90 days from receipt of this letter. Please note that <u>if you do not respond or do not comply fully with the requirements, your application may be rejected or your product registration cancelled or suspended</u>.

If, after reviewing this material, you do not understand what you must do or how or when you must respond, please contact the Product Manager listed below who will assist you in every reasonable way. If you wish to discuss the data requirements or request that certain data be waived, you must write to the Agency and indicate those data requirements with which you take issue and your rationale for doing so. After the Agency has had a chance to review your submission, the Product Manager will contact you to set up a meeting for the purpose of resolving all issues relative to data requirements.

Please note that this guidance document will eventually be supplemented by EPA with additional information about compliance with data support requirements. In Monsanto v. Administrator, EPA was recently enjoined by the District Court for the Eastern District of Missouri from implementing in any way the "mandatory data licensing" aspects of §3(c)(1)(D) of FIFRA. EPA is assessing the implications of the injunction for the reregistration process. Because of this unresolved situation, EPA has decided to proceed with the requirements in this guidance package which do not relate to the "data licensing" issue and to supplement the package with additional guidance when circumstances permit.

If you have any questions concerning this Guidance Document, you may contact the Product Manager listed below:

Mr. Henry M. Jacoby
Product Manager 21
Registration Division (TS-767)
Office of Pesticide Programs
Environmental Protection Agency
Washington, D.C. 20460
Telephone: (703) 557-1900

Sincerely,

Douglas D. Campt, Director
Registration Division (TS-767)

Enclosure

ATTACHMENT A

PRODUCTS AFFECTED BY THIS
REREGISTRATION PROCESS

Following is a list of your products affected by this reregistration process. If this list is incomplete or inaccurate in any way, please notify the Product Manager (PM) identified in the letter.

ATTACHMENT B

REGISTRANTS WITH PESTICIDE PRODUCTS CONTAINING
THE ACTIVE INGREDIENT 2,6-Dichloro-4-nitroaniline

The information attached will allow registrants with pesticide products containing the above ingredient to contact one another regarding joint data development or sharing the cost of data development under section 3(c)(2)(B) of FIFRA. This information includes the following: EPA Reg. No., company name, company address, active ingredient, percentage of active ingredient and type of formulation, such as Manufacturing-Use Product (MP), Technical Product (TP), Wettable Powder (WP), and Granular (G).

EPA Reg. No.	Co. Name and Address	% Active Ingredient	Formulation Type
239-2273	Chevron Chemical Co. Ortho Division 940 Hensley St. Richmond, Ca. 94804	35.0%	D
239-2274	do	35.0%	D
239-2307	do	5.0%	D
239-2309	do	5.0%	D
239-2407	do	20.0%	D
239-2408	do	20.0%	D
279-2386	FMC Corp. Agricultural Chemical Grp. 2000 Market St. Philadelphia, Pa. 19103	6.0%	D
279-2424	do	6.0%	D
279-2498	do	6.0%	D
279-2518	do	6.0%	D
279-2611	do	6.0%	D
279-2613	do	6.0%	D
279-2963	do	6.0%	D
400-240	Uniroyal Chemical Division of Uniroyal, Inc. 74 Amity Road Bethany, Ct. 06525	6.0%	D
400-271	do	6.0%	D
400-277	do	6.0%	D
550-42	Van Waters & Rogers Ag. Dept. 2256 Junction Av. San Jose, Ca. 95131	6.0%	D
550-86	do	6.0%	D

Attachment B
(continued)

EPA Reg. No.	Co. Name and Address	% Active Ingredient	Formulation Type
769-355	Woolfolk Chem. Works, Inc. P.O. Box 938 Ft. Valley, Ga. 31030	6.0%	D
769-356	do	6.0%	D
769-358	do	6.0%	D
769-395	do	75.0%	WP
1023-19	Upjohn Co. Tuco Division 7171 Portage Rd. Kalamazoo, Mi 49001	8.0%	D
1023-35	do	6.0%	D
1023-36	do	75.0%	WP
1023-39	do	12.0%	D
1023-40	do	15.0%	D
1023-41	do	10.0%	D
1023-42	do	4.0%	D
1023-43	do	90.0%	MP
1023-49	do	30.0%	D
1023-57	do	95.0%	TP
1202-273	Puregro Company 1276 Halyard Drive W. Sacramento, Ca, 95691	6.0%	D
1526-442	Arizona Agrochemical Co. Chemical Distributors P.O. Box 21537 Phoenix, Az 85036	6.0%	D
2749-186	Aceto Chemical Co., Inc. Agriculture Div. 126-02 Northern Blvd. Flushing, NY 11368	75.0%	WP
2792-42	Decco-Tilbelt Division Pennwalt Corp. P.O. Box 120 Monrovia, Ca 91016	48.8%	WP
2792-43	do	2.0%	EC
2935-402	Wilbur Ellis Co. 191 W. Shaw Ave. Suite 107 Fresno, Ca 93704	6.0%	D
2935-403	do	6.0%	D
7501-28	Gustafson, Inc. P.O. Box 220065 Dallas, Tx 75222	30.0%	FC

Attachment B
(continued)

EPA Reg. No.	Co. Name and Address	% Active Ingredient	Formulation Type
8764-7	FMC Corp. Citrus Machinery Div. P.O. Box 4800 6446 Fremont Ave. Riverside Ca. 92504	0.5%	L
8764-14	do	9.0%	EC
8764-15	do	3.0%	L
11169-1	San Joaquin Sulphur Co. P.O. Box 127 Lodi, Ca 95240	6.0%	D
11169-2	do	6.0%	D
34704-182	Platte Chemical Co. 150 South Main Fremont, Ne 68025	6.0%	D